

# FLAGLER COUNTY, FLORIDA

HURRICANE AND STORM DAMAGE REDUCTION PROJECT  
FINAL INTEGRATED FEASIBILITY STUDY AND  
ENVIRONMENTAL ASSESSMENT

## Appendix F

# Environmental



**US Army Corps  
of Engineers** ®  
Jacksonville District



# **Flagler County, Florida Hurricane and Storm Damage Reduction Project Integrated Feasibility Study and Environmental Assessment**

## **Environmental Appendix F**





SECTION 404(B) EVALUATION  
ENVIRONMENTAL ASSESSMENT  
FOR  
FLAGLER COUNTY HURRICANE STORM AND DAMAGE REDUCTION  
FEASIBILITY STUDY

1. Project Description

- a. Location. The Flagler County Hurricane and Storm Damage Reduction (HSDR) feasibility study area encompasses approximately 18 miles of beach shoreline, bounded to the north by St. Johns County, and to the south by Volusia County. The project area is located on a coastal barrier island that varies in width from approximately 800 to 5,000 feet. The barrier island extends uninterrupted by inlets or embayment for a length of 50 miles from Matanzas Inlet at the north end to Ponce de Leon Inlet, about 27 miles to the south in Volusia County. Smith Creek and the Atlantic Intracoastal Waterway bound the island directly to the west.
  
- b. General Description. The study area for the Feasibility Study includes the FDEP designated coastal eroded shoreline of Flagler County, per 2009 designation. The study reaches include Marineland, FDEP monument R-1 to R-4; Painters Hill, R-50 to R-59; Beverly Beach R-6- to R-66; and Flagler Beach, R-66 to R-101. Reaches between R-4 and R-50 were determined early in the screening process to not contain areas of significant erosion requiring further investigation. The purpose of the feasibility study is to assess the feasibility of providing Federal Hurricane and Storm Damage Reduction (HSDR) measures to portions of the Flagler County shoreline. The local sponsor for this project, Flagler County, has indicated strong support for feasibility phase studies for HSDR purposes along their shoreline, and has declared willingness and the capability to share applicable costs in the current study. The Recommended Plan is the National Economic Development (NED) plan which consists of a dune extension and 10-ft sacrificial berm extension in Reach C only (FDEP monuments R80 to R94). This 2.6 mile area along Flagler Beach will have an average volume of 320,000 cubic yards of material placed on the beach dune for each nourishment event of the life of the project. The average renourishment interval is 11 years, and the total volume over the life of the project is 1,610,000 cubic yards. It is assumed that dredging losses will be 26%. Therefore the estimated volume to be dredged from

the offshore borrow area over the 50-year Recommended Plan is 2,028,600 mcy.

- c. Authority. The authority for conducting this Feasibility Study is contained in House Resolution 2676 adopted May 22, 2002:

“Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, that in accordance with Section 110 of the Rivers and Harbors Act of 1962, the Secretary of the Army is requested to review the feasibility of providing shoreline erosion protection, hurricane and storm damage reduction, and related purposes to the shores of Flagler County, Florida.”

In response to this authority, the reconnaissance phase of the study was initiated upon receipt of Federal funds in 2003. The reconnaissance study for Flagler County, Florida, completed in March 2004, recommended that this study continue into the feasibility phase based on the likelihood that a Federal project may be justified and implementable given available information.

- d. General Description of Dredged or Fill Material.

- 1) General Characteristics of Material. The sediment in the borrow area is characterized as poorly-graded, fine grained sands with an average of 16% visual shell and 27% carbonate content. The mean grain size ranges between 0.19 mm and 0.47 mm, averaging 0.29 mm. The average standard deviation is 1 phi. The amount of fine grained material passing the #230 sieve averages 1.5%. The Munsell color of the dried sand is N 7/1.
- 2) Source of Material. The material for use in beach nourishment will be mined from an off-shore source. This source, (Area 2), located approximately 7 miles offshore from Flagler County, encompasses over 10,000 acres and would provide more than enough material for beach renourishment along the County’s beaches. Area 2 revealed beach compatible sand at three distinct locations: Sub-areas 2A, 2B, and 2C. Borrow Sub-areas 2A and 2B have a combined volume of beach compatible sand of approximately 3 million cubic yards, and borrow Sub-area 2C contains about 2.6 million cubic yards of material. Therefore, only Areas 2A and 2B are

proposed for Flagler County shoreline protection because they are closest to the placement area.

e. Description of the Proposed Discharge Site.

- 1) Description of Existing Beach Material. The native beach material throughout the study area consists of very fine-grained quartz sand thinly overlying coarse, medium-grained shell hash on the landward portion of the beach. The seaward portion of the beach consists of exposed, coarse shell hash. The sediment is comprised of less than 1% gravel or fine sand, less than 1% organic material, and 41.5% carbonate material. Results of the sediment analysis from collected samples indicate that the native beach sediment is bimodal consisting of a very fine-grained pinkish-gray quartz sand and medium grained reddish-yellow shell hash. The seaward portion of material consists of coarser shell hash, a likely resultant of Aeolian transport (particles transported by wind) on the sub-aerial portion of the beach along with sorting out of fine material by wave action in the intertidal (swash) zone. Some of this quartz sand appears to have been re-deposited seaward of the -0.5-ft contour.
- 2) Size. The project will consist of a dune extension some 10-ft seaward, as well as a 10-ft sacrificial berm with material obtained from an offshore borrow area via mechanical dredge. The length of the project along the shoreline is 2.6 miles.
- 3) Type of site. The type of site for placement of the sand fill material are segments of eroded, sandy, recreational beach with naturally occurring rock hardground that are variously exposed along and several hundred feet seaward of the low water shoreline. The seabed sites consist of unconsolidated fine, barren sand with no known subsurface rock within the project work zone.
- 4) Type of Habitat. The beach fill disposal site is a supra-tidal dry beach with a high energy intertidal environment.
- 5) Timing and Duration of Discharge. The exact timing of initial construction is not known at the time of submittal of the final Environmental Assessment.

- f. Description of Disposal Method. Sediment from the offshore borrow area will be obtained by use of a hopper dredge with pump-out capability for subsequent hydraulic discharge to a designated staging site. Sediment will be removed from the staging site and placed and graded along the beach project areas by truck-haul and other mechanical grading equipment.

## 2. Factual Determinations

### a. Physical Substrate Determinations.

- 1) Substrate elevation and slope. Details will be available with the final design.
- 2) Sediment Type. Material from the borrow area is fine to coarse grained quartz sand with varying amounts of small broken shell fragment; see description of 1.d(1) above.
- 3) Dredge/Fill Material Movement. The fill material will be subject to cross-shore erosion by waves with long-shore movement to both the north and south, and with principal new movement of fill material to the south.
- 4) Physical Effects on Benthos. The placement of sand on the beach face will result in the burial and loss of most of the beach infauna. Key components of these assemblages are surf clam and mole crab. With adequate recruitment, surf zone infauna, including surf clams and mole crabs should recover within one year after completion of construction if the sedimentary characteristics of the restored beach are adequate, as described above and indicated by prior analogous use of the proposed borrow area sediments.

### b. Water Circulation, Fluctuation, and Salinity Determination

- 1) Water Column Effects. Fill placement will not have long-term or significant impacts, if any, on salinity, water chemistry, clarity, color, odor, taste, dissolved gas levels, nutrients, or eutrophication.
- 2) Current Patterns and Circulation. Currents in the project area are both tidal and longshore net movement of water due to the longshore current is typically from the north to the south.

- 3) Normal water Level Fluctuations and Salinity Gradients. Tides in the project area are semi-diurnal. Elevations of mean high water and mean low water tidal datum in Flagler County are approximately 2 feet below the NGVD 29 vertical datum.
- c. Suspended Particulate/Turbidity Determinations.
- 1) Expected Changes in Suspended Particulates and Turbidity Levels in the Vicinity of the Disposal Site. There will be a temporary increase in turbidity levels in the waters adjacent to the material staging site during hydraulic discharge and a potential temporary increase in turbidity levels in the waters adjacent to the Flagler Beach shoreline within the project area during mechanical placement of the sediment to the beach face. Turbidity will be short-term and localized and no significant adverse impacts are expected. State standards for turbidity should not be exceeded during construction. Prior analogous use of the proposed borrow area sediment has not resulted in exceedance of stipulated State turbidity or water quality standards.
  - 2) Effects on the Chemical and Physical Properties of the Water Column.
    - a) Light Penetration. The placement and spread of fill on the beach will increase turbidity in the nearshore area during construction. Because the immediate nearshore area is a high wave energy system and subjected to naturally occurring elevated turbidity and sediment, increases due to project construction should not be significant. A nearshore turbidity monitoring program with a plume mixing zone of 150 meters from the hydraulic dredge and discharge sites will be implemented during construction. Turbidity will be monitored during construction, and State standards for turbidity should not be exceeded. A nearshore monitoring program will be implemented to assess the potential secondary impacts of sedimentation and turbidity to nearshore communities adjacent to the equilibrium to of fill. No hardbottom resources are present in the project area.
    - b) Dissolved Oxygen. Dissolved oxygen levels will not be altered by this project.
    - c) Toxic Metals, Organics and Pathogens. No toxic metals, organics, or pathogens will be released by the project.

d) Aesthetics. Aesthetic quality will be reduced during that period when work is occurring. There will be a long term increase in aesthetic quality of the beach once the work is completed.

3) Effects of Biota

a) Primary Productivity and Photosynthesis. The level of suspended particles will temporarily increase in the surf zone during construction. Suspended material will prevent light from reaching existing algae temporarily restricting photosynthesis and primary productivity in local areas. Potential secondary impacts of chronic turbidity and sedimentation will be assessed for the nearshore communities during the post-construction monitoring.

b) Suspension/Filter Feeders. Suspension feeders will experience short-term impacts during construction, but no long-term adverse impact will occur as a result of this project.

c) Sight Feeders. Visual feeders will experience short term impacts, but no long-term adverse impacts will occur as a result of this project.

d) Contaminant Determinations. Deposited fill material will not introduce, relocate, or increase contaminants.

e) Aquatic, Ecosystem, and Organism Determinations. The grain size characteristics and composition exhibited by the proposed fill material are similar to those of the existing beach sediments. Therefore, no sediment related impacts are expected. The proposed fill material meets the exclusion criteria; consequently, no additional chemical-biological testing will be required.

4) Effects on Plankton. Although short term effects (e.g. clogging of feeder appendages) on plankton are likely, no adverse long-term impacts to planktonic organisms are anticipated.

5) Effect on Benthos. Although avoidance to non-motile or motile benthic invertebrates on nearshore hardbottom habitat and soft bottom habitat will be practiced, some long-term, adverse impacts are anticipated to occur.

6) Effects on Nekton. No adverse long-term impacts to nektonic species are anticipated.

- 7) Effects on the Aquatic Food Web. No adverse long-term impacts to any trophic group in the food web are anticipated.
- 8) Effects on Special Aquatic Sites.
  - a) Coral Reefs. There are no coral reefs located with the proposed dredge and disposal areas.
  - b) Sanctuaries and Refuges. There are no sanctuaries or wildlife refuges located within the proposed dredge and disposal areas.
  - c) Wetlands. There are no wetlands located within the proposed dredge and disposal areas.
  - d) Mud Flats. There are no mud flats located within the proposed dredge and disposal areas.
  - e) Vegetated Shallows. There are no seagrass beds located within or adjacent to the dredge area, the staging sites or material placement locations.
- 9) Endangered and Threatened Species. There will be no significant impacts on any endangered or threatened species from the proposed project. Although designated critical habitat for the North Atlantic right whale occurs within the study area, activities proposed for the project sites will avoid impact to this habitat. Sea turtle nesting may occur in the project area during the time that the dredging and beach material placement takes place. If construction occurs during the nesting season, a nest monitoring and relocation program will be implemented as recommended by the USFWS. Although these species are unlikely to occur in the project area, protection measures for manatees, whales, shorebirds, gopher tortoise, southeastern beach mouse, and indigo snake will be followed to minimize the potential for harm to these species.
- 10) Other Wildlife. No significant adverse impacts to small foraging mammals, reptiles, wading birds, or wildlife in general are expected.
- 11) Actions to Minimize Impacts. All practical safeguards will be taken during construction to preserve and enhance environment, aesthetic, recreational, and economic values in the project area. Specific precautions that will be implemented in conjunction with the proposed project are discussed elsewhere in this Section 404(b) evaluation and

in the integrated Final Feasibility Report / Environmental Assessment for the impact.

d. Proposed Disposal Site Determinations

- 1) Mixing Zone Determinations. The fill material will not cause unacceptable changes in the mixing zone specified in the Water Quality Certification in relation to: depth, current velocity, direction and variability, degree of turbulence, stratification, or ambient concentrations of constituents.
- 2) Determination of Compliance with Applicable Water Quality Standards. Because of the inert nature of the fill material, state water quality standards will not be violated. Turbidity monitoring will be implemented as stipulated by state permits.
- 3) Potential Effects of Human Use Characteristics.
  - a) Municipal and Private Water Supplies. No municipal or private water supplies will be impacted by the implementation of the action.
  - b) Recreational and Commercial Fisheries. Recreational and commercial fisheries will not be permanently impacted by the disposal of dredged material on the beach. Minor or temporary adverse impacts to recreational fishing along the beach fill area may result from impacts to the nearshore hardbottom immediately along the shoreline; however, this may be evident as a seaward translocation of the fishing resource coincident with the addition of beach fill.
  - c) Water Related Recreation. Beach recreation will be enhanced by the nourishment of the beach. Nearshore snorkeling and fishing may be temporarily affected by increased turbidity in the vicinity of fill sites. The presence of construction-related equipment will create public safety risks at the beach sites. Adverse impacts to swimming and surfing are not anticipated because of the narrow scale of beach fill to be placed immediately along the beach face, landward of locations where swimming and surfing occur.
  - d) Aesthetics. The stabilization of an eroding beach will improve the aesthetics of the beach.
  - e) Parks, National and Historic Monuments, National Seashores, Wilderness Areas, Research Sites, and Similar Preserves. There



are numerous non-federal beach recreation areas, including state and county parks and facilities, located along the beach fill project area. The proposed activity is anticipated to maintain or improve beach recreation opportunities associated with these parks. There are no other national and historic monuments, national seashores, wilderness areas, research sites, and similar preserves located within the project areas.

- f) Determination of Cumulative Effects on the Aquatic Ecosystem.  
As long as the characteristics of fill material remain consistent with previous projects (overall low proportion of fine-grained sand), there will be no significant cumulative impacts that result in a major impairment of water quality to the existing aquatic ecosystem as a result of placement of fill at the project site. Research during the feasibility phase of this project has indicated no net cumulative, adverse effect to the exposure of existing nearshore hardbottom along or adjacent to prior beach nourishment activities in the known recent past. No cumulative impacts to turtles, fish or wildlife have been documented.
- g) Determination of Secondary Effects on the Aquatic Ecosystem.  
No adverse secondary effects of the placement of the fill material are anticipated. Long-term monitoring will document potential secondary impacts of turbidity and sedimentation upon adjacent habitats.

### 3. Findings of Compliance or Non-compliance with the Restrictions on Discharge.

- a. No significant adaptations of the guidelines were made relative to this evaluation.
- b. No practicable alternative exists which meets the study objectives that does not involve discharge of fill into waters of the State of Florida and/or United States.
- c. After consideration of disposal site dilution and dispersion, the discharge of fill materials will not cause or contribute to, violations of any applicable State water quality standards for Class III waters. The discharge operation will not violate the Toxic Effluent Standards of Section 307 of the Clean Water Act.

- d. The Flagler County HSDR project will not jeopardize the continued existence of any species listed as threatened or endangered or result in the likelihood of destruction or adverse modification of any critical habitat as specified by the Endangered Species Act of 1973, as amended.
- e. The placement of fill material will not result in significant adverse effects on human health and welfare, including municipal and private water supplies, recreational and commercial fishing, plankton, fish shellfish, wildlife, and special aquatic sites. The life stages of aquatic species and other wildlife will not be adversely affected. Significant adverse effects on aquatic ecosystem diversity, productivity and stability, and recreational, aesthetic, and economic values will not occur. No adverse effects to hardbottom resources are likely to occur.
- f. On the basis of the guidelines, the proposed disposal site for the discharge of dredged material is specified as complying with the requirements of these guidelines.

## COASTAL ZONE MANAGEMENT CONSISTENCY

### FLORIDA COASTAL ZONE MANAGEMENT PROGRAM FEDERAL CONSISTENCY EVALUATION PROCEDURES

#### FLAGLER COUNTY HURRICANE AND STORM DAMAGE REDUCTION FEASIBILITY STUDY FLAGLER COUNTY, FLORIDA

##### 1. Chapter 161, Beach and Shore Preservation.

The intent of the coastal construction permit program established by this chapter is to regulate construction projects located seaward of the line of mean high water and which might have an effect on natural shoreline processes.

Response: The proposed plans and information will be submitted to the state in compliance with this chapter.

##### 2. Chapters 186 and 187, State and Regional Planning.

These chapters establish the State Comprehensive Plan which sets goals that articulate a strategic vision of the State's future. Its purpose is to define in a broad sense, goals, and policies that provide decision-makers directions for the future and provide long-range guidance for an orderly social, economic and physical growth.

Response: The Proposed project has been coordinated with various Federal, State and local agencies during the planning process. The project meets the primary goal of the State Comprehensive Plan through preservation and protection of the shorefront and infrastructure.

##### 3. Chapter 252, Disaster Preparation, Response and Mitigation.

This chapter creates a state emergency management agency, with the authority to provide for the common defense; to protect the public peace, health and safety; and to preserve the lives and property of the people of Florida.

Response: The proposed project involves the placement of beach compatible material onto an eroding beach as a protective means for residents, development, and infrastructure located along the Atlantic shoreline within Flagler County. Therefore, this project would be consistent with the efforts of the Division of Emergency Management.

Regarding natural resources, no hardbottom resources were identified to be present in the borrow or project placement areas (dune) during the subsurface resource survey; therefore, no impact would occur to this resource.

#### 4. Chapter 253, State Lands.

This chapter governs the management of submerged state lands and resources within state lands. This includes archaeological and historical resources; water resources; fish and wildlife resources; beaches and dunes; submerged grass beds and other benthic communities; swamps, marshes, and other wetlands; mineral resources; unique natural features; submerged lands; spoil islands; and artificial reefs.

Response: The proposed beach nourishment would create increased recreational beach and potential sea turtle nesting habitat. No seagrass beds, swamps, marshes and other wetland; mineral resources; unique natural features; spoil islands; and hardground or artificial reefs are located within or adjacent to the areas proposed for dredging, disposal, beach fill placement, or mitigation. The proposed project would comply with the intent of this chapter.

#### 5. Chapters 253, 259, 256, and 375, Land Acquisition.

These chapters authorize the state to acquire land to protect the environmentally sensitive areas.

Response: No land acquisition is proposed in this project.

#### 6. Chapter 258, State Parks and Aquatic Preserves.

This chapter authorizes the state to manage state parks and preserves. Consistency with this statute would include consideration of projects that would directly or indirectly adversely impact park property, natural resources, park programs, management or operations.

Response: There is one state park, Washington Oaks State Park within the study area, but will not be included for project management measures. Therefore, no adverse impact will occur to this state park. There is one state recreational area, Gamble Rodgers Memorial State Recreation Area, which is within the project area. Protective measures to avoid or minimize impact along with mitigation measures are included in the Environmental Assessment. Regarding natural resources, no hardbottom resources were identified to be present in the borrow or project placement areas (dune) during the subsurface resource survey; therefore, no impact would occur to this resource.

#### 7. Chapter 267, Historic Preservation.

This chapter establishes the procedures for implementing the Florida Historic Resources Act responsibilities.

Response: No significant impacts to historical properties are expected from construction of the proposed Flagler County Hurricane and Storm Damage Reduction (HSDR) project based upon the results of site investigation and this coordination.

8. Chapter 288, Economic Development and Tourism.

This chapter directs the state to provide guidance and promotion of beneficial development through encouraging economic diversification and promoting tourism.

Response: The proposed beach nourishment would provide more space for recreation and the protection of recreational facilities along the receiving beach. This would be compatible with tourism for this area and therefore, is consistent with the goals of this chapter.

9. Chapters 344 and 339, Public Transportation.

This chapter authorizes the planning and development of a safe balanced and efficient transportation system.

Response: No public transportation systems would be impacted by this project.

10. Chapter 370, Saltwater Living Resources.

This chapter directs the state to preserve, manage and protect the marine, crustacean, shell and anadromous fishery resources in state waters; to protect and enhance the marine and estuarine environment; to regulate fishermen and vessels of the state engaged in the taking of such resources within or without state waters; to issue licenses for the taking and processing products of fisheries; to secure and maintain statistical records of the catch of each such species; and to conduct scientific, economic, and other studies and research.

Response: The tentatively selected plan consists of the creation of an extension of the upland dune and 10-ft sacrificial berm constructed with a hydraulic dredge. There will be no effect to fishery resources such as estuaries or other marine environments.

11. Chapter 372, Living Land and Freshwater Resources.

This chapter establishes the Fish and Wildlife Conservation Commission and directs it to manage freshwater aquatic life and wild animal life and their habitat to perpetuate a diversity of species with densities and distributions which provide sustained ecological, recreational, scientific, educational, aesthetic, and economic benefits.

Response: The project will have no significant effect on freshwater aquatic life or wild animal life.

12. Chapter 373, Water Resources.

This chapter provides the authority to regulate the withdrawal, diversion, storage, and consumption of water.

Response: The project does not involve water resources as described by this chapter.

13. Chapter 373, Pollutant Spill Prevention and Control.

This chapter regulates the transfer, storage, and transportation of pollutants and the cleanup of pollutant discharges.

Response: The contract specifications will prohibit the contractor from dumping oil, fuel, or hazardous wastes in the work area and will require that the contractor adopt safe and sanitary measures for the disposal of solid wastes. A spill prevention plan will be required.

14. Chapter 377, Oil and Gas Exploration and Production.

This chapter authorizes the regulation of all phases of exploration, drilling, and production of oil, gas, and other petroleum products.

Response: This project does not involve the exploration, drilling or production of gas, oil, or petroleum product, and therefore, does not apply.

15. Chapter 380, Environmental Land and Water Management.

This chapter establishes criteria and procedures to assure that local land development decisions consider the regional impact nature of proposed large-scale development.

Response: The proposed renourishment project will not have any regional impact on resources in the area. Therefore, the project is consistent with the goals of this chapter.

16. Chapter 388, Arthropod Control.

This chapter provides for a comprehensive approach for abatement or suppression of mosquitoes and other pest arthropods within the state.

Response: The project will not further the propagation of mosquitoes or other pest arthropods.

17. Chapter 403, Environmental Control.

This chapter authorizes the regulation of pollution of the air and waters of the state by the Florida Department of Environmental Regulation (now a part of the Florida Department of Environmental Protection).

Response: A Draft Environmental Assessment addressing project impacts has been prepared and is under review by the appropriate resource agencies including the Florida Department of Environmental Protection. Environmental protection measures will be implemented to ensure that no lasting adverse effects on water quality, air quality, or other environmental resources will occur. Water Quality Certification will be sought from the State prior to construction. The project complies with the intent of this chapter.

18. Chapter 582, Soil and Water Conservation.

This chapter establishes policy for the conservation of the state soil and water through the Department of Agriculture. Land use policies will be evaluated in terms of their tendency to cause or contribute to soil erosion or to conserve, develop, and utilize soil and water resources both onsite or in adjoining properties affected by the project. Particular attention will be given to projects on or near agricultural lands.

Response: The proposed project is not located near or on agricultural lands; therefore, this chapter does not apply.







REPLY TO  
ATTENTION OF

CESAJ-PD-EC

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

AUG 26 2008

MEMORANDUM FOR Commander, U.S. Army Records Management and Declassification Agency, ATTN: AHRC-PDD-RP Casey Building, Room 102, 7701 Telegraph Road, Alexandria, Virginia 22315-3860

SUBJECT: Notice of Intent to Prepare a Draft Environmental Impact Statement

Enclosed for publication in the Federal Register are three signed original copies of the Notice of Intent to prepare a Draft Environmental Impact Statement and compact disc for Flagler County, Florida proposal to recover critically eroded coastal shoreline. The billing code is 3710-AJ.

FOR THE COMMANDER

Encl

A handwritten signature in black ink, appearing to read "Eric P. Summa", is written over the typed name.

ERIC P. SUMMA  
Acting Chief, Environmental Branch

**BILLING CODE: 3710-AJ.**

**DEPARTMENT OF DEFENSE**

**Department of the Army; Corps of Engineers**

**Intent to Prepare a Draft Environmental Impact Statement for Shoreline  
Protection for Flagler County, FL**

**AGENCY:** Department of the Army, U.S. Army Corps of Engineers, DOD.

**ACTION:** Notice of intent.

**SUMMARY:** The Jacksonville District, U.S. Army Corps (Corps) of Engineers intends to prepare a Draft Environmental Impact Statement (EIS) for protection of 18-Miles of coastal shoreline in Flagler County, FL. The project is a cooperative effort between the U.S. Army Corps of Engineers (lead Federal agency) and City of Flagler Beach (non-Federal sponsor and cooperating agency).

**ADDRESSES:** Ms. C. L. Brooks, U.S. Army Corps of Engineers, Jacksonville District, Planning Division, Environmental Section, P.O. Box 4970, Jacksonville, FL 32207.

**FOR FURTHER INFORMATION CONTACT:** C. L. Brooks at (904) 232-2130.

**SUPPLEMENTARY INFORMATION:** Authority for the proposed study is House Resolution 2676 adopted May 22, 2002. A Reconnaissance Report completed in March 2004 by the Corps, concluded based on preliminary findings, there was a federal interest in pursuing shoreline protection for Flagler County, FL.

*Alternatives:* Project's alternatives include no action and various levels of protection along approximately 18 miles of coastal shoreline with substantial critically eroded areas. In addition to various levels of beach nourishment and periodic renourishment, the Corps will consider other management measures such as nearshore placement of sand, breakwaters, submerged artificial reef, groins, revetments, seawalls, dunes/vegetation, change to the Coastal Construction Control Line, relocation of structures, moratorium on construction, establish a no-growth program, relocation of structures, flood proofing of structures, and condemnation of structures with land acquisition.

*Issues:* The EIS will consider impacts on hardbottom communities, sea grasses, protected species, shore impacts, health and safety, water quality, aesthetics and recreation, fish and wildlife resources, cultural resources, energy conservation, socio-economic resources, navigation, and other impacts identified through scoping, public involvement and interagency coordination.

*Scoping:* The scoping process will involve Federal, State, County and municipal agencies and other interested persons and organizations. . Any public or agency scoping meeting will be announced separately from this notice.

*Public Involvement:* We invite the participation of affected Federal, State and local agencies, affected Native-American Tribes, and other interested private organizations and individuals. There will be a public meeting on the Draft

Environmental Impact Statement following its preparation. The date, time, and location will be announced.

*Coordination:* The proposed action is being coordinated with the U.S. Fish and Wildlife Service (FWS) [under Section 7 of the Endangered Species Act and the Fish and Wildlife and Coordination Act] and with the National Marine Fisheries Service [under the Magnuson-Stevens Fishery Conservation and Management Act (on Essential Fish Habitat) and Section 7 of the Endangered Species Act. The proposed action is also being coordinated with the Florida State Historic Preservation Officer, the U.S. Coast Guard, and the U.S. Environmental Protection Agency.

*Other Environmental Review and Consultation:* The proposed action would involve evaluation for compliance with guidelines pursuant to Section 404(b)(1) of the Clean Water Act, water quality certification (application to the State of Florida) pursuant to Section 401 of the Clean Water Act, certification of state lands, easements, and rights-of-way, and determination of Coastal Zone Management Act Consistency.

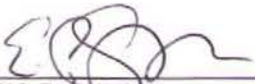
*Agency Role:* As the cooperating agency, non-Federal sponsor and leading local expert, the City of Flagler Beach will provide information and assistance on the resources to be impacted, mitigation measures and alternatives. Other agencies having either regulatory authority or special expertise may also be invited to become a cooperating agency in preparation of the EIS.

*Draft EIS Preparation:* It is anticipated that the Draft EIS will be available to the public by December 2010. As the study and EIS develop, additional information will be posted under Flagler County on the Jacksonville District's Environmental Documents web page at:

<http://planning.saj.usace.army.mil/envdocs/envdocsb.htm>. The status of any Florida Department of Environmental Protection application submitted for permit of this action will be posted on the internet at:

<http://www.dep.state.fl.us/beaches/permitting/permits.htm>.

26 Aug 2008  
DATE

  
ERIC P. SUMMA  
ACTING CHIEF, ENVIRONMENTAL BRANCH





DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO  
ATTENTION OF

Planning Division  
Environmental Branch

AUG 28 2008

To Whom It May Concern:

The Jacksonville District, U.S. Army Corps of Engineers (Corps), is gathering information to define issues and concerns that need to be addressed during a shore protection study for Flagler County, Florida. Authority for the study is contained in House Resolution 2676 adopted May 22, 2002. A reconnaissance level report has been completed and resulted in a recommendation to continue the study into the feasibility phase. The study area is the coastal shoreline that exists within the boundaries of Flagler County, approximately 18 miles.

Flagler County is located on the northeast coast of Florida midway between the Florida/Georgia state line and Cape Canaveral. The study area is part of a barrier island and mainland complex that extends from the Matanzas Inlet to the Ponce de Leon Inlet (Figures 1 and 2). Geographically, the county is bound to the north by St. Johns County, to the south by Volusia County, Putnam County to the west and the Atlantic Ocean to the east. Critically eroded areas have developed along the shoreline and pose threats to existing development, infrastructures and recreation features; shoreline stabilization structures, a major roadway (State Highway A1A); and fish and wildlife habitat.

The feasibility study will develop and evaluate shore protection alternatives with potential to reduce hurricane and storm damage along critically eroded areas; improve the quality of suitable habitats for threatened and endangered species (Table 1); provide future protective features for unique habitats; provide beneficial use of dredged material; and improve local and regional recreational opportunities. See enclosed "Notice of Intent" for additional information.

For the purposes of the Feasibility Report, the study area has been divided into six (6) reaches (Figure 3) as following:

Reach 1 – Marineland. This reach is located between the Florida Department of Environmental Protection (FDEP) monuments R-1 to R-4. Erosion is being experienced at a rate of 0.5 feet per year (ft/yr).

Reach 2 – Painters Hill. This reach is located between FDEP monuments R-50 to R-55. Erosion is ranging from 1.5 to 2.0 ft/yr.

-2-

Reach 3 – Beverly Beach. This reach is located between FDEP monuments R-64 to R-67. Critical erosion extends about 0.3 mile.

Reaches 4, 5 and 6 – Flagler County. These reaches are located between FDEP monuments R-77 to R-91. Critical erosion extends approximately 2.5 miles.

During the reconnaissance study, sand source alternatives were identified (Figures 3 and 4). It is highly probable that beach quality sand may be secured from maintenance dredging of the Matanzas Intracoastal Waterway; dredging of the material deposited into the Matanzas Inlet by tidal shoals and sediment migration patterns; or secured from offshore sand sources. During the Feasibility Study, details specific to each alternative will be evaluated to determine available volume, quality, and compatibility.

The Flagler County Shoreline Protection Project is proposed for evaluation under the Environmental Impact Statement (EIS) process. The EIS will assess impacts on the human environment, identify methods and procedures to insure that present un-quantified environmental amenities and values are sufficiently addressed, evaluate unresolved conflict that may develop over the recommended alternatives; and will initiate and use ecological/natural resources information in the planning and development of project action and alternatives. During the Feasibility Study, public meetings also will be conducted to identify and develop public concerns and obtain substantive input into the study processes.

The Corps invite you to submit comments on environmental concerns, cultural resources, study objectives, and important features within the described study area, as well as, suggested alternatives, scientific data, and possible study improvements. Within 45 days of this letter, your written communication should be directed to the letterhead address. Questions of inquiry and clarification can be directed to the Environmental Point of Contact, Ms. C.L. Brooks, at either the above letterhead, telephone number 904-232-2130, facsimile number 904-232-3442, or email address [Catherine.l.brooks@usace.army.mil](mailto:Catherine.l.brooks@usace.army.mil).

Sincerely,



Rebecca S. Griffith, Ph.D, PMP  
Chief, Planning Division

Enclosure

bcc (w/ encl.):  
CESAJ-PD-PC  
CESAJ-DP-I



REPLY TO  
ATTENTION OF

Planning Division  
Environmental Branch

Dr. Roy Crabtree, Southeast Regional Administrator  
NOAA Fisheries Service  
263 13th Avenue South  
St Petersburg, Florida 33701

Dear Dr. Crabtree:

In accordance with regulations pertaining to the National Environmental Policy Act (Title 40 of the Code of Federal Regulations, part 1501.6), I am formally inviting your agency to become a cooperating agency for an Environmental Impact Statement (EIS) on the Flagler County, Shoreline Protection Feasibility Study. A copy of the Notice of Intent to Prepare an EIS and a Plan View map of the study area are enclosed. Additional information can be obtained from the following website: <http://planning.saj.usace.army.mil/envdocs/envdocsb.htm#Flagler-County>.

Please note that cooperating agency status involves actions and responsibilities beyond that normally associated with a commenting or permitting agency. We request that your role include the following: (1) designate a Point of Contact representing your agency on the Project Delivery Team for this action; (2) provide early review and comment on the EIS and Feasibility Study; and (3) participate in the Feasibility Scoping Meeting (FSM), the Alternative Formulation Briefing (AFB), the public meeting on the Draft EIS, and periodic project meetings and teleconferences.

The conduct of the FSM and AFB and the formulation of the project, alternatives, and mitigation will be in accordance with Engineer Regulation ER 1105-2-100 (<http://www.usace.army.mil/publications/eng-regs>) and will fully consider a range of environmental, economic, and social factors. As a cooperating agency, you must fully consider the views, needs, and benefits of competing interests.

No cooperating agency will have "veto" over the selection of the project plan, alternatives, or mitigation measures. Under your status as a commenting agency, you may recommend actions not ultimately adopted or implemented by the lead agency. You may also impose requirements to the extent allowed under your legal authority as a permitting agency. Conflict with the lead agency may be resolved through mediation, placing a dissenting opinion in the EIS, withdrawing your cooperating agency status, or the Lead agency pursuing an EIS without you as a cooperating agency. For additional information see the enclosed "Rights and Responsibilities of Lead and Cooperating Agencies" (Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act Regulations, Council on Environmental Quality, 1981). Additional information on Cooperating Agencies can be found at <http://ceq.eh.doe.gov/nepa/regs>.

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

AUG 26 2008

-2-

Please indicate whether you accept this invitation to become a cooperating agency (as described above) within 30 days of the date of this letter. If you have any questions, please contact Mr. Kenneth Dugger at 904-232-1686 or Ms. Catherine Brooks at 904 232-2130.

Sincerely,

Eric P. Summa  
Acting Chief, Environmental Branch

Enclosures

Copies Furnished:

- Ms. Lauren Milligan, Florida Department of Environmental Protection, Office of Intergovernmental Programs, 3900 Commonwealth Boulevard, MS 47, Tallahassee, Florida 32399-3000
- Ms. Sally Mann, Director, Office of Intergovernmental Programs, Florida Department of Environmental Protection, 3900 Commonwealth Boulevard, MS 47, Tallahassee, Florida 32399-3000
- Mr. Jack Long, Florida Department of Environmental Protection Southeast District, 400 North Congress Avenue, Suite 200, West Palm Beach, Florida 33401



Flagler County HSDR Feasibility Report  
Environmental Appendix



REPLY TO  
ATTENTION OF

Planning Division  
Environmental Branch

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

AUG 26 2008

Mr. Ken Haddad, Executive Director  
Florida Fish and Wildlife Conservation Commission  
620 South Meridian Street  
Tallahassee, Florida 32399-1600

Dear Mr. Haddad:

In accordance with regulations pertaining to the National Environmental Policy Act (Title 40 of the Code of Federal Regulations, part 1501.6), I am formally inviting your agency to become a cooperating agency for an Environmental Impact Statement (EIS) on the Flagler County, Shoreline Protection Feasibility Study. A copy of the Notice of Intent to Prepare an EIS and a Plan View map of the study area are enclosed. Additional information can be obtained from the following website: <http://planning.saj.usace.army.mil/envdocs/envdocsb.htm#Flagler-County>.

Please note that cooperating agency status involves actions and responsibilities beyond that normally associated with a commenting or permitting agency. We request that your role include the following: (1) designate a Point of Contact representing your agency on the Project Delivery Team for this action; (2) provide early review and comment on the EIS and Feasibility Study; and (3) participate in the Feasibility Scoping Meeting (FSM), the Alternative Formulation Briefing (AFB), the public meeting on the Draft EIS, and periodic project meetings and teleconferences.

The conduct of the FSM and AFB and the formulation of the project, alternatives, and mitigation will be in accordance with Engineer Regulation ER 1105-2-100 (<http://www.usace.army.mil/publications/eng-regs>) and will fully consider a range of environmental, economic, and social factors. As a cooperating agency, you must fully consider the views, needs, and benefits of competing interests.

No cooperating agency will have "veto" over the selection of the project plan, alternatives, or mitigation measures. Under your status as a commenting agency, you may recommend actions not ultimately adopted or implemented by the lead agency. You may also impose requirements to the extent allowed under your legal authority as a permitting agency. Conflict with the lead agency may be resolved through mediation, placing a dissenting opinion in the EIS, withdrawing your cooperating agency status, or the Lead agency pursuing an EIS without you as a cooperating agency. For additional information see the enclosed "Rights and Responsibilities of Lead and Cooperating Agencies" (Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act Regulations, Council on Environmental Quality, 1981). Additional information on Cooperating Agencies can be found at <http://ceq.eh.doe.gov/nepa/regs>.

-2-

Please indicate whether you accept this invitation to become a cooperating agency (as described above) within 30 days of the date of this letter. If you have any questions, please contact Mr. Kenneth Dugger at 904-232-1686 or Ms. Catherine Brooks at 904 232-2130.

Sincerely,

Eric P. Summa  
Acting Chief, Environmental Branch

Enclosures

Copies Furnished:

Mr. Tim Breault, Director, Habitat and Species Conservation, Fish and Wildlife Conservation Commission, 620 South Meridian Street, Tallahassee, Florida 32399-1600  
Mr. Chuck Collins, Regional Director, Fish and Wildlife Conservation Commission, 8535 Northlake Boulevard, West Palm Beach, Florida 33412



DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4870  
JACKSONVILLE, FLORIDA 32232-0019

Planning Division  
Environmental Branch

AUG 26 2008

Mr. Michael Barnett, P.E.  
Chief, Bureau of Beaches and Coastal Systems  
Florida Department of Environmental Protection,  
5050 West Tennessee Street Building B  
Tallahassee, Florida 32304

Dear Mr. Barnett:

In accordance with regulations pertaining to the National Environmental Policy Act (Title 40 of the Code of Federal Regulations, part 1501.6), I am formally inviting your agency to become a cooperating agency for an Environmental Impact Statement (EIS) on the Flagler County, Shoreline Protection Feasibility Study. A copy of the Notice of Intent to Prepare an EIS and a Plan View map of the study area are enclosed. Additional information can be obtained from the following website: <http://planning.saj.usace.army.mil/envdocs/envdocs.htm#Flagler-County>.

Please note that cooperating agency status involves actions and responsibilities beyond that normally associated with a commenting or permitting agency. We request that your role include the following: (1) designate a Point of Contact representing your agency on the Project Delivery Team for this action; (2) provide early review and comment on the EIS and Feasibility Study; and (3) participate in the Feasibility Scoping Meeting (FSM), the Alternative Formulation Briefing (AFB), the public meeting on the Draft EIS, and periodic project meetings and teleconferences.

The conduct of the FSM and AFB and the formulation of the project, alternatives, and mitigation will be in accordance with Engineer Regulation ER 1105-2-100 (<http://www.usace.army.mil/publications/eng-regs>) and will fully consider a range of environmental, economic, and social factors. As a cooperating agency, you must fully consider the views, needs, and benefits of competing interests.

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-2-

Please indicate whether you accept this invitation to become a cooperating agency (as described above) within 30 days of the date of this letter. If you have any questions, please contact Mr. Kenneth Dugger at 904-232-1686 or Ms. Catherine Brooks at 904 232-2130.

Sincerely,

Eric P. Samma  
Acting Chief, Environmental Branch

Enclosures

Copies Furnished:

- Ms. Lauren Milligan, Florida Department of Environmental Protection, Office of Intergovernmental Programs, 3900 Commonwealth Boulevard, MS 47, Tallahassee, Florida 32399-3000
- Ms. Sally Mann, Director, Office of Intergovernmental Programs, Florida Department of Environmental Protection, 3900 Commonwealth Boulevard, MS 47, Tallahassee, Florida 32399-3000
- Mr. Jack Long, Florida Department of Environmental Protection Southeast District, 400 North Congress Avenue, Suite 200, West Palm Beach, Florida 33401



REPLY TO  
ATTENTION OF

Planning Division  
Environmental Branch

Mr. Dave Hankla, Field Supervisor  
U.S. Fish and Wildlife Service  
North Florida Field Office  
7915 Baymeadows Way, Suite 200  
Jacksonville, Florida 32256-7517

Dear Mr. Hankla:

In accordance with regulations pertaining to the National Environmental Policy Act (Title 40 of the Code of Federal Regulations, part 1501.6), I am formally inviting your agency to become a cooperating agency for an Environmental Impact Statement (EIS) on the Flagler County, Shoreline Protection Feasibility Study. A copy of the Notice of Intent to Prepare an EIS and a Plan View map of the study area are enclosed. Additional information can be obtained from the following website: <http://planning.saj.usace.army.mil/envdocs/envdocsb.htm#Flagler-County>.

Please note that cooperating agency status involves actions and responsibilities beyond that normally associated with a commenting or permitting agency. We request that your role include the following: (1) designate a Point of Contact representing your agency on the Project Delivery Team for this action; (2) provide early review and comment on the EIS and Feasibility Study; and (3) participate in the Feasibility Scoping Meeting (FSM), the Alternative Formulation Briefing (AFB), the public meeting on the Draft EIS, and periodic project meetings and teleconferences.

The conduct of the FSM and AFB and the formulation of the project, alternatives, and mitigation will be in accordance with Engineer Regulation ER 1105-2-100 (<http://www.usace.army.mil/publications/eng-regs>) and will fully consider a range of environmental, economic, and social factors. As a cooperating agency, you must fully consider the views, needs, and benefits of competing interests.

No cooperating agency will have "veto" over the selection of the project plan, alternatives, or mitigation measures. Under your status as a commenting agency, you may recommend actions not ultimately adopted or implemented by the lead agency. You may also impose requirements to the extent allowed under your legal authority as a permitting agency. Conflict with the lead agency may be resolved through mediation, placing a dissenting opinion in the EIS, withdrawing your cooperating agency status, or the Lead agency pursuing an EIS without you as a cooperating agency. For additional information see the enclosed "Rights and Responsibilities of Lead and Cooperating Agencies" (Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act Regulations, Council on Environmental Quality, 1981). Additional information on Cooperating Agencies can be found at <http://ceq.eh.doe.gov/nepa/regs>.

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

AUG 26 2008

-2-

Please indicate whether you accept this invitation to become a cooperating agency (as described above) within 30 days of the date of this letter. If you have any questions, please contact Mr. Kenneth Dugger at 904-232-1686 or Ms. Catherine Brooks at 904 232-2130.

Sincerely,

Eric P. Suruma  
Acting Chief, Environmental Branch

Enclosures



Flagler County HSDR Feasibility Report  
Environmental Appendix



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

-2-

Planning Division  
Environmental Branch

JAN 28 2011

Mr. James F. Bennett  
Bureau of Ocean Energy Management, Regulation and Enforcement Environmental Division  
Branch of Environmental Assessment  
381 Elden Street, MS 4042  
Herndon, VA 20170

Dear Mr. Bennett:

In accordance with regulations pertaining to the National Environmental Policy Act (Title 40 of the Code of Federal Regulations, part 1501.6), I am formally responding to your request for the Bureau of Ocean Energy Management, Regulation and Enforcement Division, Branch of Environmental Assessment to become a cooperating agency for an Environmental Impact Statement (EIS) on the Flagler County Hurricane and Storm Damage Reduction (HSDR) Feasibility Study. Informal coordination with your agency is forth coming. An EIS is currently being drafted which will evaluate the Flagler County HSDR feasibility project with emphasis on identifying alternatives for the protection of natural and economic resources along Flagler County beaches and shoreline. A copy of the Notice of Intent to Prepare an EIS and a Plan View map of the study area are enclosed. Additional information can be obtained from the following website:

<http://planning.saj.usace.army.mil/envdocs/envdocsb.htm#Flagler-County>.

Please note that cooperating agency status involves actions and responsibilities beyond that normally associated with a commenting or permitting agency. Your agency is being specifically requested to provide special expertise on natural resources in this area.

The formulation of the project, alternatives, and mitigation will be in accordance with Engineer Regulation ER 1105-2-100 and will fully consider a range of environmental, economic, and social factors. As a cooperating agency, you must fully consider the views, needs, and benefits of competing interests.

No cooperating agency will have "veto" over the selection of the project plan, alternatives, or mitigation measures. Under your status as a cooperating agency, you may recommend actions not ultimately adopted or implemented by the lead agency. You may also impose requirements to the extent allowed under your legal authority as a permitting agency. Conflict with the lead agency may be resolved through mediation, placing a dissenting opinion in the EIS, withdrawing your cooperating agency status, or the Lead agency pursuing an EIS without you as a cooperating agency.

For additional information see the enclosed "Rights and Responsibilities of Lead and Cooperating Agencies" (Forty Most Asked Questions Concerning CEO's National Environmental Policy Act Regulations, Council on Environmental Quality, 1981).

Please indicate whether you accept this invitation to become a cooperating agency (as described above) within 30 days of the date of this letter. If you have any questions, please contact Ms. Kathleen McConnell at 904 232-3607.

Sincerely,

Eric P. Summa  
Chief, Environmental Branch

Enclosures

Flagler County HSDR Feasibility Report  
Environmental Appendix



DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4870  
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO  
ATTENTION OF  
Planning Division  
Environmental Branch

Ms. Teresa Calleson, Acting Director  
U. S. Fish & Wildlife Service  
North Florida Ecological Services Office  
7915 Baymeadows Way, Suite 200  
Jacksonville, FL 32256-7517

3 OCT 2007

Dear Director:

This letter initiates the 30-day coordination with your office under the Statewide Programmatic Biological Opinion (SPBO) for beach placement and shore protection for the Flagler County Hurricane and Storm Damage Reduction (HSDR) project located in Flagler County, Florida. The Corps proposes to reduce damage from extreme storms and hurricanes through the shoreline protection measure of rebuilding a natural dune system that includes planting native dune-type vegetation for a section of Flagler Beach from FDEP monument R-80 to R-92. The proposed project consists of a 10-foot seaward extension of the existing dune; construction of the dune extension will extend the existing berm and entire active profile seaward. The attached figure provides a summary of the plan.

There are no identified terms and conditions, or other criteria that would not be followed. Standard Manatee protection measures would be imposed on activities in the water. With respect to sea turtles, all other terms and conditions of the SPBO would be followed. The proposed activity may affect nesting sea turtles and is not likely to adversely affect Manatees. The activity is unlikely to affect beach mice as none are known to be present within the project footprint.

This letter also notifies your office with respect to the Programmatic Piping Plover Biological Opinion (P3BO). The activity will not occur in "optimal" Piping Plover habitat and is not likely to adversely affect the Piping Plover (see enclosed information sheet). Although no optimal Piping Plover habitat is present within the project area, this species has been documented as occurring within the Gamble Rodgers State Recreational Area to the south of the project limits (R-94). It is for this reason that a P3BO informational sheet is being submitted with this document.

Should you determine that the proposed activity is not within the scope of the SPBO or the P3BO, please consider this letter initiation of consultation pursuant to Section 7 of the Endangered Species Act. If you have any questions, please contact me

at 904 232-1665 or the technical point of contact. The technical point of contact for this action is Kathleen McConnell who can be reached at 904 232-3607.

Sincerely,

*Kenneth R. Dugger*  
Eric P. Summa  
Chief, Environmental Branch

Enclosures

McConnell/CESAJ-PD-EC/3607/  
Spinning/CESAJ-PD-EC  
Harrah/CESAJ-DP-C  
Dugger/CESAJ-PD-E  
Summa/CESAJ-PD-E

Flagler County HSDR Proposed Project



Piping Plover Project Information and Checklist

Seasonal Window, Beach Work Limited to May 16 through July 14

If not, why?

Surveys Start How Many Months before Construction

Who Conducts Surveys Before/During Construction

Habitat Avoided by Pipeline  Foraging  Sheltering  Roosting

High Value Habitat Affected  Washover Fan  Emerging Spit  Sand Bar(s)

Intertidal Flats

Habitat Evaluation Method/Source  Aerial Photo  Site Visit/Survey

Two or more Adjacent Beach Segments or inlets Affected the Same Year

If so, Describe and Why?

All Material Placed in the Nearshore

If not, Why?

OPTIMAL HABITAT DETERMINATION (any of the following 3 categories)

1. Designated Critical Habitat Affected

2. Affected public lands  within 1 mile of an inlet  washover fan(s)

emergent nearshore sandbar(s)  emergent shoal(s) or sandbar(s)

Bayside mud flat(s), sand flat(s), algal flat(s)  Bay/Lagoon Shoreline

3. Other Optimal Habitat

Charley Pass, south of Critical Habitat Unit FL-23 on North Captiva Island, Lee County (R-75.5 and R-83)

Stump Pass and the beaches adjacent to it, Charlotte County (R-15.5 to R-33)

Palmer Point Park, Sarasota County (R-77 to R-83)

St. Lucie Inlet and associated shoals, Martin County (R-42 to R-78)

Crandon Park, Miami-Dade County (R-89 to R-101)

Sanibel Island, Lee County (R-109 to R-174)

If Optimal Habitat, Complete the Following

C:\Users\k3pdekrd\Documents\Programmatic BA\Piping Plover\Form.xlsx

page 1 of 2

Piping Plover Project Information and Checklist

Habitat Outside the Placement Footprint to be avoided to the maximum extent practicable

Intertidal Beach  Ephemeral Pools  Washover Area(s)

Wrack Line  other Describe

Driving on beach minimum necessary and above or below wrack line only

Predator proof trash receptacles at beach access point for project construction

Brief Workers on Piping Plover

Educational Signs at Public Access Points

Piping Plover monitoring a full migration and wintering season prior to construction

Piping Plover monitoring during construction

Piping Plover monitoring for 2 years after construction

If any of the above for optimal habitat are not followed, provide explanation and/or alternatives

Names (if known) and qualifications of individuals conducting Piping Plover Surveys

C:\Users\k3pdekrd\Documents\Programmatic BA\Piping Plover\Form.xlsx

page 2 of 2

Flagler County HSDR Feasibility Report  
Environmental Appendix

Statewide Programmatic Biological Opinion (SPBO)  
Beach Placement and Shore Protection  
Coast of Florida  
U.S. Fish and Wildlife Service (FWS)

New Record  Close  Record # 69  
Save Record  Prepared by:   
Print Record  Date Entered: 10/9/2013

Project Name:   
Project Event:   
Project Number: 113166 Application #:   
Sponsor/ Applicant: Flagler County  
Quantity (CY):  Length (Feet): 13728  
County(ies): Flagler Location R-Monuments: R-80 to R-92  
Lat °: 30 Lat': 0 Lat":  Long°: -80 Long':  Long":   
Borrow or Dredge Site(s): Offshore Borrow Area

Beach Placement from Navigation Dredging:  O and M  Deepen, Widen, or Expand  
Beach Nourishment/Shore Protection Project:  Initial Nourishment  Renourishment  
Nature of Activity:  Beach Placement  Beach Placement Below MLW  
 Dune Placement or Planting  Nearshore Placement (material remains below MLW)  
 Sand Bypassing  Sand Back-Passing  Sand Transfer  Groin Repair or Replacement  
 Jetty Repair or Replacement  \*Other Activity (list in comment box)  
Area with Sea Turtle Window:  SE Florida (Broward through Brevard)  Manasota Key  
 Gulf Co (St Joe Peninsula St Pk, St. Joe Peninsula, Cape San Blas)  Franklin Co (St George Is)  
\*Piping Plover Critical Habitat  \*Other Piping Plover Habitat  \*30-day Coordination Still Pending  
PP Crit Hab 1: No critical habitat but piping plover observed on beach south of project area.  
PP Crit Hab 2:   
 \*No Pre-Project Survey for Actual or Potential Washover Fan  
Beach Mouse Habitat (use drop-down box below)  Other Beach Mouse Habitat (list in comment box)  
Beach Mouse Habitat:   
 \*Important Manatee Area  \*Beach Jacquemontia Habitat (including pipeline, access, storage, staging, etc.)  
 \*Roseate Tern Colon, May-June (Pelican Shoal, Vaca Rock, Truman Annex, Marathon Gov Center)  
 \*Snowy Plover Breeding Area, Mar-Sep (Gulf Coast: Caladesi Is, Fort DeSoto Park, Cayo Costa, isolated peninsulas)  
\*These items may be outside the scope of the SPBO and/or require additional coordination w/FWS (see next page)

Responsible for Post Construction Monitoring/Corrective Measures (Compaction/Escarpments, 3 yrs post construction)  
Sponsor:   
Responsible for Post Construction Monitoring (Sea Turtle Nesting, 2-yr post construction)  
Sponsor:   
Responsible for Post Construction Monitoring (2 Beach Lighting Surveys, early May and late July):  
Sponsor:   
 \*Any Other Term and Condition not Followed Describe Other TC:   
Comment, Habitat:   
Comment, Other: Degraded beach and dune habitat along high recreational usage beach. Sea Turtle nesting at toe of dune.

-Instructions-

**General:** Text fields are limited to 255 characters to accommodate a consolidated report in which the form's data is exported to an Excel spreadsheet. There are 2 "Comment" fields to allow about 500 characters total.  
**Project Name:** Use official project name from P2 for Corps projects.  
**Project Activity/Event:** Identify the dredging or renourishment event (e.g., reach, segment, year, sequence)  
**Project Number:** Use project number from P2 for Corps projects.  
**Application #:** Use Corps permit application number where applicable.  
**Quantity/Length:** Normally use cubic yards and linear feet for beach placement.  
**Location and R-monuments:** Brief phrase for location. Use state R-monuments.  
**Latitude and Longitude:** Enter for approximate center of shoreline project/activity (not for the borrow/dredge site). For example, Jacksonville District Office would be Latitude 30° 19' 04.91" Longitude -81° 39' 36.48".  
**Borrow or Dredge Sites:** Brief phrase or name for borrow area or dredge site.  
**Piping Plover Critical Habitat:** Use the 2 drop-down boxes (only one critical habitat unit per drop-down box). See PBO or Federal Register of July 19, 2001, pages 36070 to 36073 for additional details on Piping Plover critical habitat.  
**Other Piping Plover Habitat:** List in the comment box any additional critical habitat units and any other important Piping Plover habitat. Refer to SPBO for additional information.

- For projects located: (a) In piping plover critical habitat, initiation of formal consultation is necessary. (b) In or within one mile of a critical habitat unit, the Corps shall contact the Service with the project description. The Service will aid the Corps in determining potential indirect effects to biological constituent elements within a critical habitat unit. The Service will respond within 30 days. Previous consultations in these areas have ended informally but depending on the latest information, formal consultation may be likely. (c) In or within one mile of an inlet, the Corps shall contact the Service with the project description. The Service will aid the Corps in determining whether there will be any effects to the piping plover. The Service will respond within 30 days. Previous consultations in these areas have ended informally but depending on the latest information, formal consultation may be likely. (d) On or adjacent to public lands (county, state, federal, etc), the Corps shall contact the Service with the project description. The Service will aid the Corps in determining whether there will be any effects to the piping plover. The Service will respond within 30 days. Previous consultations in these areas have ended informally but depending on the latest information, formal consultation may be likely.
- For jetty and groin repair/replacement project, the Corps shall contact the Service with the project description. The Service will aid the Corps in determining whether there will be any effects to the piping plover. The Service will respond within 30 days. Previous consultations in these areas have resulted in informal consultation.
- In all other areas, the Corps shall contact the Service with the project description and location. The Service will be the Corps' key source of information to provide technical assistance, including known locations or the latest survey information on piping plovers within 30 days. Previous consultations in these areas have resulted in informal consultation.

**Beach Mouse Habitat:** Geographic range of species is shown in drop-down box. Note that species is limited to areas of suitable habitat within that range. Refer to the SPBO for additional information.  
**Important Manatee Areas (IMA):** Activities within IMAs are not within the scope of the SPBO and require separate consultation.  
**Beach Jacquemontia Habitat:** Impacts to this species are not within the scope of the SPBO. Within the range of this species a survey and avoidance is required (see SPBO for additional information).  
**Roseate Tern Nesting Colony, May-June:** Activities affecting such colonies during nesting season are not within the scope of the SPBO.  
**Snowy Plover:** In addition to migratory bird protection, is a candidate for listing as threatened. Breeding occurs along Gulf Coast at indicated parks and on isolated coastal peninsulas. If listing is imminent, Section 7 consultation may be appropriate. **Responsible for Post Construction Monitoring and Corrective Measures:** The activity is not within the scope of the SPBO if there is no formal acceptance of responsibility for post-construction monitoring and corrective measures. A separate consultation with FWS is required. L:\grop\pdp\digger\pbo\pboinfoSheet.pdf





# United States Department of the Interior

## U. S. FISH AND WILDLIFE SERVICE

7915 BAYMEADOWS WAY, SUITE 200  
JACKSONVILLE, FLORIDA 32256-7517

IN REPLY REFER TO:

**FWS Log No. 41910-2014-F-0038**

May 30, 2014

Colonel Alan M. Dodd  
District Commander  
U.S. Army Corps of Engineers  
P.O. Box 4970  
Jacksonville, FL 32232-0019  
(Attn: Kathleen McConnell)

Dear Colonel Dodd:

This document transmits the U.S. Fish and Wildlife Service's (Service) decision regarding the application of the proposed Flagler County Hurricane and Storm Reduction project located in Flagler County, Florida, to the August 22, 2011, Statewide Programmatic Biological Opinion (SPBO) (Service, 2011) and the May 22, 2013, Programmatic Piping Plover Biological Opinion (P<sup>3</sup>BO) (Service, 2013). The U.S. Army Corps of Engineers (Corps) determined on October 8, 2013, that the proposed project "may affect" the threatened North Atlantic population of the loggerhead sea turtle (*Caretta caretta*), the endangered green sea turtle (*Chelonia mydas*), and the endangered leatherback sea turtle (*Dermochelys coriacea*). In addition, the Corps determined that the proposed project "may affect, but was not likely to adversely affect" the endangered West Indian (Florida) manatee (*Trichechus manatus latirostris*) and the piping plover (*Charadrius melodus*), because it was not located in optimal Piping Plover Habitat. This document is provided in accordance with Section 7 of the Endangered Species Act of 1973, as amended (Act) (87 Stat. 884; 16 U.S.C. 1531 *et seq.*), the Marine Mammal Protection Act of 1972, as amended (MMPA) (16 U.S.C. 1361 *et seq.*), and the provisions of the Fish and Wildlife Coordination Act of 1958, as amended (FWCA) (48 Stat. 401; 16 U.S.C. 661 *et seq.*).

### PROJECT DESCRIPTION

The Corps is proposing to perform shoreline protection activities from Florida Department of Environmental Protection monuments R-80 to R-94 in Flagler Beach in order to rebuild a natural dune system by adding a 10-foot seaward extension of the existing dune (Figure 1). In the event of future storms, the work should result in a significant reduction in storm damage along State Road A1A. The proposed construction will result in 330,000 cubic yards of sand placement followed by periodic nourishment events of 320,000 cubic yards. The sand will be mined from a borrow area located seven miles offshore of the placement area and delivered to the project site using a hydraulic dredge. The proposed project is expected to take 30 days for the mobilization/demobilization activities and approximately 123 days for construction. The expected interval between renourishment events would be 11 years. Additional work associated with the project will include the planting of native shoreline vegetation on the constructed dune and on the



existing dune disturbed by the proposed construction. We consider the action area for this project to include approximately 2.6 miles of linear shoreline.

The action area is defined as all areas to be affected directly or indirectly by the action and not merely the immediate area involved in the action. The Service identifies the action area to include the staging and discharge areas, pipeline corridor, beach access corridor, and the area of the sand placement. The project is located along the Atlantic Ocean, Flagler County, between R-80 and R-94.

## **THREATENED AND ENDANGERED SPECIES**

### **Sea Turtles**

The Service and the National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NOAA Fisheries) share Federal jurisdiction for sea turtles under the Act. The Service has the responsibility for sea turtles on the nesting beach and the NOAA Fisheries has jurisdiction for sea turtles in the marine environment. As a result, our analysis will only address activities that may impact nesting sea turtles, their nests and eggs, and hatchlings as they emerge from the nest and crawl to the sea.

Please note the provisions of this consultation do not apply to sea turtles in the marine environment, such as swimming juvenile and adult sea turtles. If applicable, you are required to consult with the NOAA Fisheries on your project. For further information on Act compliance with the NOAA Fisheries, please contact Ms. Cathy Tortorici, Chief of the Interagency Cooperation Branch, by e-mail at [cathy.tortorici@noaa.gov](mailto:cathy.tortorici@noaa.gov) or by phone at 727-209-5953.

The applicant has agreed to implement SPBO's Reasonable and Prudent Measures and Terms and Conditions, which apply to sand placement projects constructed during the sea turtle nesting season. The Service has determined that the proposed project is appropriate to apply to the SPBO as it concerns sand replacement activities along the coast of Florida. The minimization measures, Reasonable and Prudent Measures, and Terms and Conditions in the SPBO are applicable to the proposed project and must be followed for the loggerhead, green, and leatherback sea turtles. We have assigned log number 2014-F-0038 to this individual consultation. Please submit a report for the proposed project as described in the SPBO Term and Condition A22 following completion of the proposed work.

### **Piping Plover**

The proposed project is located in non-optimal piping plover habitat and, therefore, consistent with the P<sup>3</sup>BO, we conclude that a determination of "may affect, but is not likely to adversely affect" is appropriate, provided that conservation measures agreed to by the Corps for all projects that may affect the piping plover are followed. The applicant has agreed to implement the conservation measures outlined in the P<sup>3</sup>BO that apply to projects in non-optimal habitat, including implementing the survey guidelines for non-breeding shorebirds.



Wintering shorebird surveys as described in the P<sup>3</sup>BO are intended to document shorebird use of project sites before and after construction and thereby monitor project impacts to the piping plover. Reasonable and Prudent Measure 5 and Terms and Conditions 8 and 9 in the P<sup>3</sup>BO describe the monitoring requirement. Term and Condition 8 stipulates that for one full piping plover migration and winter season (July 15 to May 15) prior to construction and 2 seasons following construction, bimonthly (twice-monthly) surveys for piping plovers shall be conducted in any intertidal or shoreline areas within or affected by the project. Term and Condition 9 outlines information to be collected. For projects in non-optimal habitat, such as this project, the Service has modified winter shorebird survey requirements as deemed appropriate based on specifics of the project.

If piping plovers are documented in the project area during the preconstruction surveys, the Service will be contacted for potential implementation of additional conservation measures prior to commencing construction. All shorebird survey data will be forwarded to the Service annually by July 31 of each year in which monitoring is conducted, as described in Term and Condition 9 of the P<sup>3</sup>BO. The person(s) conducting the surveys must demonstrate the qualifications and ability to identify shorebird species and be able to provide the information outlined in the P<sup>3</sup>BO.

#### West Indian (Florida) Manatee

Provided that the Florida Fish and Wildlife Conservation Commission's (FWC's) 2011 Standard Manatee Conditions for In-Water Work and minimization measures outlined in the SPBO are implemented to avoid potential impacts to manatees, the Service concurs with the determination of "may affect, but not likely to adversely affect" for the manatee.

This letter fulfills the requirements of the Act and no further action is required. If modifications are made to the project, if additional information involving potential effects to listed species becomes available, or if a new species is listed, reinitiation of consultation may be necessary.

### **FISH AND WILDLIFE RESOURCES**

This section is provided in accordance with the FWCA of 1958, as amended (48 Stat. 401; 16 U.S.C. 661 *et seq.*) to address other fish and wildlife resources in the project area.

In accordance with the Migratory Bird section of the SPBO, the Corps should follow the FWC standard guidelines (see attached guidelines) to protect against impacts to nesting shorebirds as a result of the proposed project. With the protection measures from the guidelines, the SPBO, and the P3BO implemented, the proposed work should not result in significant impacts to those resources.

The Corps should continue to consult with NOAA Fisheries regarding the dredge and sand placement templates as well as the downdrift areas. In addition, the Corps will assess and consult with NOAA Fisheries concerning potential impacts to foraging and swimming sea turtles, and all other marine species under their jurisdiction within the action area.

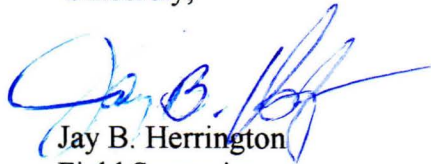
## REINITIATION NOTICE

This concludes formal consultation on the action outlined in the request. As provided in 50 CFR §402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if:

1. The amount or extent of incidental take outlined in the SPBO and/or P3BO is exceeded. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation;
2. New information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion;
3. The agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in this opinion; or
4. A new species is listed or critical habitat designated that may be affected by the action.

Thank you for your cooperation in the effort to conserve fish and wildlife resources. Should you have additional questions or require clarification regarding this letter, please contact Terri Calleson at 904-731-3286.

Sincerely,



Jay B. Herrington  
Field Supervisor

cc: Corps, Jacksonville, Florida (Kathleen McConnell)  
DEP, Tallahassee, Florida (Lanie Edwards)  
FWC, Tallahassee, Florida (Robbin Trindell)  
NOAA Fisheries, St. Petersburg, Florida (Kathy Tortorici)



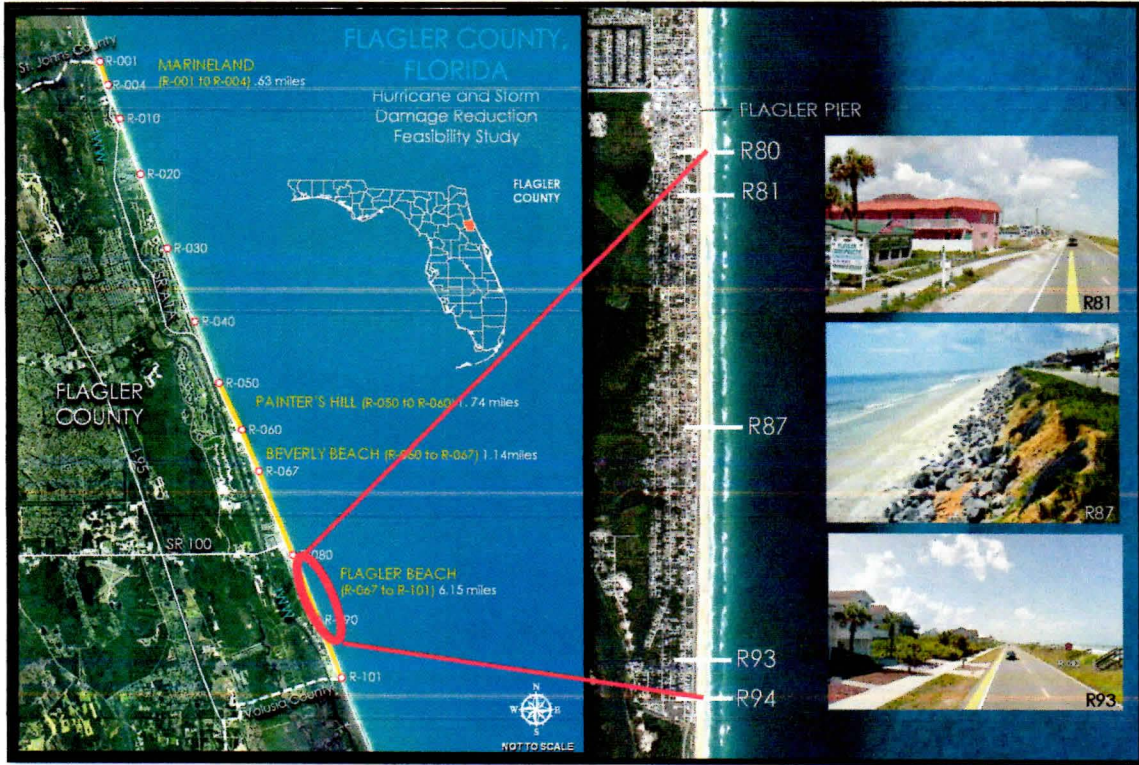


Figure 1. Specific location of proposed work

### LITERATURE CITED

- Florida Fish and Wildlife Conservation Commission. 2011. Standard Manatee Conditions for In-Water Work 2011. Tallahassee, Florida. Available from:  
<http://myfwc.com/wildlifehabitats/managed/manatee/permit-review/#Main>
- U.S. Fish and Wildlife Service (Service). 2011. Statewide programmatic biological opinion to the U.S. Army Corps of Engineers (FWS Log No. 41910-2011-F-0170) for shore protection activities along the coast of Florida (August 22, 2011). Jacksonville, Panama City, and Vero Beach Field Offices, Florida.
- U.S. Fish and Wildlife Service (Service). 2013. Programmatic piping plover biological opinion to the U.S. Army Corps of Engineers (Service Consultation Code 04EF1000-2013-F-0124) for shore protection activities in the geographical region of the north and south Florida Ecological Services Field Offices (May 22, 2013). Jacksonville and Vero Beach Field Offices, Florida.



## Attachment

### Standard Conditions for Placement of Dredged Material at Seabird and Shorebird Nesting Sites

1. **Selection of Bird Monitors.** The permittee or designated representative (“Permittee”) shall hire one or more Bird Monitors, depending on the size of the area to be affected, who will monitor shorebird activity before, during, and after construction. Bird Monitors should have proven seabird and shorebird identification skills and avian survey experience. Before hiring any Bird Monitors, the Representative shall provide a list of candidate Bird Monitors with (1) their contact information and (2) a summary of their qualifications, including bird identification skills and avian survey experience, to the FWC Regional Species Conservation Biologist (contact information attached) for FWC approval before the Permittee hires the Bird Monitor(s).
2. **Pre-Construction Meeting.** The Permittee is responsible for arranging a meeting with the U.S. Fish and Wildlife Service (USFWS), the Florida Fish and Wildlife Conservation Commission (FWC), and the Bird Monitor(s) before any work begins. The Permittee shall notify the USFWS, the FWC Regional Species Conservation Biologist (**contact information attached**), and the Bird Monitor(s) at least 10 business days before the date of that meeting. The purpose of this meeting is to ensure that the Permittee and Bird Monitor(s) fully understand and agree with the protection measures and any additional site-specific measures that need to be taken before, during, and after construction.
3. **Nesting Seabird and Shorebird Protection Conditions:** Bird Monitors shall use the following survey protocols:
  - a. The Bird Monitor(s) shall review and become familiar with the general information on the FWC’s Florida Shorebird Database (FSD) website ([www.FLShorebirdDatabase.org](http://www.FLShorebirdDatabase.org)). They shall use the data-collection protocol and implement data-entry procedures as outlined in that website. An outline of data to be collected, including downloadable field data sheets, is available on the website.
  - b. Breeding season varies by species. Most species have completed the breeding cycle by September 1, but flightless young may be present through September. The following dates are based on the best available information regarding ranges and habitat use by species around the state:
    - All Gulf Coast counties: February 15 until September 1 except:
      - Spoil islands in Hillsborough County: March 1 until September 1
      - Citrus and Levy counties: March 15 until September 1
      - Dixie and Taylor counties: April 1 until September 1

- St. Lucie, Martin, and Palm Beach counties:
  - Spoil islands and estuaries: March 15 until September 1
  - Coastal beaches: April 1 until September 1
- Broward and Miami-Dade counties: April 1 until September 1
- All other Atlantic Coast counties: March 15 until September 1

Surveys during the breeding season shall begin on the first day of the breeding season or 10 days before any site work begins, whichever is later. Surveys shall be conducted through August 31 or until all breeding activity has concluded, whichever is later.

- c. During the breeding season, the Bird Monitor(s) shall survey all potential beach-nesting bird habitats that may be affected by construction or pre-construction activities. The Bird Monitor(s) shall establish one or more shorebird survey routes into the FSD website to cover these areas.
- d. During the pre-construction and construction phases of the project, the Bird Monitor(s) shall complete surveys on a daily basis to detecting breeding activity and the presence of flightless chicks before (1) equipment is moved to the area, (2) vehicles are operated in the area, or (3) any other activities occur that have the potential to disrupt breeding behavior or cause harm to the birds or their eggs or young.
- e. The Bird Monitor(s) shall survey the project area by walking and looking for evidence of (1) shorebirds exhibiting breeding behavior, (2) shorebird chicks, or (3) shorebird juveniles, as outlined in the FSD's *Breeding Bird Protocol for Shorebirds and Seabirds*. The Bird Monitor(s) must use binoculars for these surveys.

If an ATV or other vehicle is needed to cover large project areas, operators shall adhere to the FWC's Best Management Practices for Operating Vehicles on the Beach (<http://myfwc.com/conservation/you-serve/wildlife/beach-driving/>). Specifically, the vehicle must be operated at a speed under 6 mph and only on beaches at or below the high-tide line. The Bird Monitor(s) will stop at no greater than 200-meter intervals to look for breeding activity.

- f. Once the Bird Monitor(s) confirms that birds are breeding, as evidenced by the presence of a scrape, eggs, or young, the Bird Monitor(s) shall notify the FWC Regional Species Conservation Biologist (**contact information attached**) within 24 hours. The Bird Monitor(s) must report all breeding activity to the FSD website within one week of data collection.
4. ***Seabird and Shorebird Buffer Zones and Travel Corridors.*** The Bird Monitor(s) shall establish a disturbance-free buffer zone around any location within the project area where



shorebirds have been engaged in breeding behavior, including territory defense. The FWC considers a 300-foot-wide buffer to be adequate based on published studies; however, a smaller, site-specific buffer may be established if approved by the FWC Regional Species Conservation Biologist (**contact information attached**). All sources of human disturbance (including pedestrians, pets, and vehicles) shall be prohibited in the buffer zone.

- a. The Bird Monitor(s) shall keep breeding sites under sufficient surveillance to determine if birds appear agitated or disturbed by construction or other activities in adjacent areas. If birds do appear to be agitated or disturbed by these activities, then the Bird Monitor(s) shall widen of the buffer zone immediately to a sufficient size to protect breeding birds.
- b. The Bird Monitor(s) shall ensure that reasonable and traditional pedestrian access is not blocked situations under which breeding birds will tolerate pedestrian traffic. Breeding birds may tolerate pedestrian traffic within 300 feet of an established pathway. The Bird Monitor(s) shall work with the FWC Regional Species Conservation Biologist to determine if pedestrian access can be accommodated without compromising nesting success.
- c. The Bird Monitor(s) shall ensure that the perimeters of designated buffer zones are marked with posts, twine, and signs stating “Do Not Enter, Important Nesting Area” or similar language. The signs shall include the name and a phone number of the entity responsible for posting. Posts should not be higher than 3 inches once installed. “Symbolic fencing” (i.e., twine, string, or rope) shall be placed between all posts and be clearly visible to pedestrians. In areas where marine turtles nest, the ropes shall be at least 2.5 feet above the ground. If pedestrian pathways are approved by the FWC Regional Species Conservation Biologist within the 300-foot buffer zone, these should be clearly marked. The Bird Monitor(s) shall ensure that the posting is maintained in good repair until breeding is completed or terminated. Although solitary nesters may leave the buffer zone with their chicks, the posted area continues to provide a potential refuge for the family until breeding is complete. Breeding is not considered to be completed until all chicks have fledged.
- d. The Bird Monitor(s) shall ensure that no construction activities, pedestrians, moving vehicles, or stockpiled equipment are allowed within the buffer area.
- e. The Bird Monitor(s) shall designate and mark travel corridors outside the buffer areas so as not to cause disturbance to breeding birds. Heavy equipment, other vehicles, or pedestrians may go past breeding areas in these corridors. However, other activities such as stopping or turning heavy equipment and vehicles shall be prohibited within the designated travel corridors adjacent to the breeding site. When flightless chicks are present within or next to travel corridors, the Bird Monitor(s) shall accompany moving vehicles to ensure that no chicks are in the path of the moving vehicle and no tracks are left that could trap flightless chicks.



- f. The FWC recommends that the Bird Monitor(s) ensure that some activity in the travel corridor is maintained on a daily basis in order to discourage birds from nesting within the travel corridor. These activities should not be allowed to disturb shorebirds nesting on site or interfere with marine turtle nesting, especially if the corridors are established before construction has started.
  - g. Flooding or flagging potential breeding sites shall be the only passive methods for modifying their suitability in upland placement areas before breeding starts unless the FWC Regional Species Conservation Biologist has approved alternative methods. The Bird Monitor(s) shall survey these areas for shorebird activity before these areas are flooded or flagged.
5. ***Seabird and Shorebird Notification.*** If the Bird Monitor(s) find that shorebirds are breeding within the project area, he or she shall ensure that an informational bulletin board is placed and maintained in the construction staging area. This bulletin board shall display the location map of the construction site, depict the location(s) of the bird breeding areas, and include a clearly visible warning stating: “NESTING BIRDS ARE PROTECTED BY LAW INCLUDING THE FLORIDA ENDANGERED AND THREATENED SPECIES ACT AND THE STATE AND FEDERAL MIGRATORY BIRD ACTS”.
6. ***Equipment Storage and Placement.*** The Bird Monitor(s) shall ensure that staging areas for construction equipment are located off the shoreline whenever possible. Equipment not in use or left overnight shall be stored away from the shoreline in order to minimize disturbance to nesting shorebirds. In addition, all construction pipes that are placed on the shoreline shall be located as far landward as possible. Pipes that are stored temporarily shall be placed off the shoreline to the maximum extent possible. If it will be necessary to extend construction pipes past a known shorebird nesting site or an over-wintering area for piping plovers, then those pipes should be placed landward of the site whenever possible before birds are active in that area. No pipe or sand shall be placed seaward of a shorebird nesting site during the shorebird nesting season.



DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO  
ATTENTION OF

Planning and Policy Division  
Environmental Branch

OCT 04 2011

To Whom It May Concern:

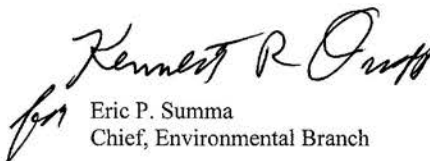
The Jacksonville District, U.S. Army Corps of Engineers (Corps), is gathering information to define issues and concerns that need to be addressed during hurricane and storm damage reduction (HSDR) study for Flagler County, Florida. Authority for the study is contained in House Resolution 2676, adopted May 22, 2002. A Notice of Intent to prepare a Draft Environmental Impact Statement was issued on August 26, 2008. A reconnaissance level report was completed resulting in a recommendation to continue the study into the Feasibility phase. The study area is the coastal shoreline of Flagler County, approximately 18 miles.

The Flagler County HSDR Project is being evaluated under the National Environmental Policy Act (NEPA) process. The NEPA would assess impacts to the human environment, identify methods and procedures to insure that present un-qualified environmental amenities and values are sufficiently addressed, and evaluate unresolved conflict that may develop over the recommended alternatives. Additionally, the NEPA would initiate and use ecological/natural resources information in the planning and development of project action and alternatives.

The Corps invites you to attend this public scoping workshop to address environmental concerns, cultural resources, study objectives, and important features within the described study area, and to suggest alternatives, scientific data collection, and possible study improvements. The workshop would provide the opportunity for verbal and written commentary, and participation with technical specialists of various disciplines that address the Corps planning process, environmental and cultural resources, as well as engineering and economic concerns.

The workshop will be held on October 25, 2011, from 6:00 pm to 9:00 pm at the Flagler County Government Services Building, located at 1769 East Moody Blvd, Building #2, Bunnell, FL 32110. Inquiries regarding this meeting may be directed to Ms. Kathleen McConnell, at the above letterhead, by telephone at 904-232-3607, or email at [Kathleen.k.mcconnell@usace.army.mil](mailto:Kathleen.k.mcconnell@usace.army.mil).

Sincerely,

  
Eric P. Summa  
Chief, Environmental Branch



**UNITED STATES DEPARTMENT OF COMMERCE**

National Oceanic and Atmospheric Administration

**NATIONAL MARINE FISHERIES SERVICE**

Southeast Regional Office

263 13th Avenue South

St. Petersburg, Florida 33701-5505

<http://sero.nmfs.noaa.gov>

June 11, 2014

F/SER47:GG/pw

(Sent via Electronic Mail)

Colonel Alan M. Dodd, Commander  
U.S. Army Corps of Engineers Jacksonville District  
Jacksonville District, Corps of Engineers  
P.O. Box 4970  
Jacksonville, Florida 32232-0019

Attention: Kathleen McConnell

Dear Colonel Dodd:

NOAA's National Marine Fisheries Service (NMFS) reviewed the *Flagler County, Florida Hurricane and Storm Damage Reduction Project Draft Integrated Feasibility Study and Environmental Assessment* (EA) dated January 2014. The Tentatively Selected Plan (TSP) is the National Economic Development plan and consists of a ten-foot dune extension and a ten-foot sacrificial berm over 2.6 miles of shoreline in central Flagler Beach between Florida Department of Environmental (FDEP) monuments R-80 and R-94. The sand would come from a borrow area seven miles offshore. A hydraulic dredge would likely be used to dredge sand from the borrow area and to pump sand onto the beach; heavy equipment (such as bulldozers) would be used to grade the sand into the construction template. Over the 50-year period of Federal participation, the Jacksonville District estimates four nourishment events at 11-year intervals would occur after initial construction. Initial construction and each nourishment event would require approximately 330,000 cubic yards of sand. As the nation's federal trustee for the conservation and management of marine, estuarine, and anadromous fishery resources, the following comments are provided pursuant to authorities of the Fish and Wildlife Coordination Act and the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act).

*Essential Fish Habitat*

EA Section 2.4.6 identifies federally managed fishery species the Jacksonville District believes occur in the project area and discusses their distribution along with the distribution of numerous other species. These descriptions do not require augmentation to complete the EFH consultation.

*Impacts to Essential Fish Habitat*

NMFS examined whether the project may adversely impact live/hardbottom habitat, which EA Sections 2.4.4 and 2.4.6 note is a Habitat Area of Particulars Concern. EA Appendix F includes a report from Dial Cordy and Associates (DCA) showing "exposed or near-surface rock" between the 10-foot and 15-foot depth contours between R-80 to R-87 and notes this is generally consistent with a 1999 report from FDEP. While the DCA report does not quantify the area of



the outcrops, NMFS estimates Figures 4C and 4D show 1 to 2 acres of hardbottom habitat. The DCA report notes confirmation of these signatures may be required, and EA Appendix F and the latter part of EA Section 2.4.4 discuss a follow-up survey done about one year later in 2012. The description of the follow-up surveys is not clear. The text says multi-beam sonar and towed video were “proposed to acquire further detail of the hardbottom” but it appears only an additional sidescan sonar survey was done. The proximity of these potential outcrops to the equilibrium toe-of-fill also is not clear because the EA has few cross-sectional drawings. EA Appendix A (page A-66) suggests the equilibrium toe-of-fill extends to the 12-foot depth contour. Amending Figures 4D and 4E to include the estimated equilibrium toe-of-fill would greatly clarify the extent of the potential live/hardbottom impacts. Assuming no live/hardbottom habitat would be buried by the equilibrium toe-of-fill, NMFS has no concerns about impacts to this habitat in the fill area.

NMFS also examined whether the project may adversely impact live/hardbottom habitat at the borrow area. EA Appendix F reports no hardbottom in or near Borrow Areas 2A, 2B, and 2C. While SEAMAP<sup>1</sup> shows hardbottom may be present in Area 2C, the data reported in Appendix F should be substantially higher in quality and reliability than the much older SEAMAP data. Further, EA Sections 7.3.1 and 7.6.1 note a 400-foot buffer would be maintained around any hardbottom found as new information becomes available as project planning progresses (NMFS assumes the 200-foot buffer listed in Table 7-1 is a typographical error given the support the EA offers elsewhere for the 400-foot buffer). Provided a 400-foot buffer is used to protect any live/hardbottom habitat found in a borrow area, NMFS has no concerns about impacts to this habitat in the borrow areas.

Lastly, NMFS examined whether dredging of the borrow area and filling at the beach may increase the concentration of suspended sediments that can clog gills in young, less mobile fish and invertebrates and thereby increase their mortality rate. The extent of negative effects is dependent on the life history stages of the species present and duration of exposure to high concentrations of suspended sediments. In open areas, adherence to the State Water Quality Criteria for turbidity at the edge of a 150-meter mixing zone is normally sufficiently protective of fishery resources. In addition to the State Water Quality Criteria, another practicable way to minimize fishery impacts is restricting dredging to the winter months or placing restrictions on dredge operations (e.g., in the case of a cutterhead dredge, the swing speed of the ladder arm supporting the cutterhead, the rotational speed of the cutterhead blades, and the intake suction velocity at the cutterhead) can be used to minimize suspension of material. NMFS requests the Jacksonville District evaluate whether a seasonal restriction on dredging would be a practicable way to minimize impacts to larvae and juveniles migrating along the shoreline. If a seasonal restriction is not practicable, an evaluation of the duration that larvae and young juvenile fish would be exposed to high levels of suspended sediments should be beneficial.

---

<sup>1</sup> Southeast Area Monitoring and Assessment Program - South Atlantic (SEAMAP-SA). 2001. Distribution of Bottom Habitat on the Continental Shelf from North Carolina through the Florida Keys. SEAMAP-SA Bottom Mapping Project, Atlantic States Marine Fisheries Commission, Washington, DC. 166 pages

We appreciate the opportunity to provide these comments. Please direct related questions to the attention of Mr. George Getsinger at our Northeast Florida field office. He may be reached at 9741 Ocean Shore Drive, St. Augustine, Florida, 32080; by telephone at (904) 461-8674; or by email at [George.Getsinger@noaa.gov](mailto:George.Getsinger@noaa.gov).

Sincerely,



/ for

Virginia M. Fay  
Assistant Regional Administrator  
Habitat Conservation Division

cc:

COE, [Jason.J.Spinning@usace.army.mil](mailto:Jason.J.Spinning@usace.army.mil), [Kathleen.K.Mcconnell@usace.army.mil](mailto:Kathleen.K.Mcconnell@usace.army.mil)  
EPA, [Eric.H.Hughes@usace.army.mil](mailto:Eric.H.Hughes@usace.army.mil)  
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F/SER4, [David.Dale@noaa.gov](mailto:David.Dale@noaa.gov), [George.Getsinger@noaa.gov](mailto:George.Getsinger@noaa.gov)

# Flagler County (Florida) Nearshore Hardbottom Survey

Submitted in support of the Flagler County  
Hurricane and Storm Damage Reduction Feasibility Study



Prepared for  
Jacksonville District  
U.S. Army Corps of Engineers



by  
Dial Cordy and Associates Inc.  
490 Osceola Avenue  
Jacksonville Beach, Florida 32250

3 October 2011

F-31



## TABLE OF CONTENTS

	Page
LIST OF FIGURES.....	ii
LIST OF TABLES.....	ii
1.0 INTRODUCTION.....	1
2.0 METHODS.....	3
2.1 Field Activities.....	3
2.2 Data processing and analysis.....	4
3.0 RESULTS AND DISCUSSION.....	5
4.0 LITERATURE CITED AND CONSULTED.....	5

### LIST OF FIGURES

Figure 1	Flagler County Study Areas.....	2
Figure 2	Project Map for Flagler County Beach Hardbottom Survey.....	4
Figure 3	Flagler Side Scan Sonar Mosaic.....	6
Figure 4	Flagler Side Scan Sonar Analysis Map Index.....	7
Figure 4 A	Flagler Side Scan Sonar Analysis – Sheet A.....	8
Figure 4 B	Flagler Side Scan Sonar Analysis – Sheet B.....	9
Figure 4 C	Flagler Side Scan Sonar Analysis – Sheet C.....	10
Figure 4 D	Flagler Side Scan Sonar Analysis – Sheet D.....	11
Figure 4 E	Flagler Side Scan Sonar Analysis – Sheet E.....	12

### LIST OF TABLES

Table 1	Designated Feasibility Study Reaches for Flagler County, Florida.....	1
Table 2.	Flagler Nearshore Side Scan Data Acquisition.....	3

## 1.0 INTRODUCTION

**Background.** Flagler County is located on the northeast coast of Florida approximately midway between the Florida/Georgia state line and Cape Canaveral. The county is bounded to the north by St. Johns County and to the south by Volusia County (Figure 1). Flagler County has approximately 18 miles of sandy shoreline, all of which are authorized for Federal study. The coast has no inlets or embayments and the beaches are typically fronted by steep dune faces or rock revetment. Sections of coquina rock outcroppings and nearshore hardbottom are present along the coast. The Flagler County shoreline is subject to erosion caused by both storms and natural shoreline processes. The purpose of the study is to assess the feasibility of providing Federal Hurricane and Storm Damage Reduction (HSDR) measures to portions of the Flagler County shoreline (USACE 2011).

The four reaches listed in Table 1 encompass approximately 9.6 miles of coastline to be investigated in the Flagler County Feasibility Study. This includes 5.7 miles of shoreline that is designated by the Florida Department Environmental Protection (FDEP) as critically eroded. Of these four reaches, three will be included in the sidescan sonar hardbottom resource survey. These include Painters Hill, Beverly Beach, and Flagler Beach as identified in Figure 1. Marineland is excluded from the study area for this side scan sonar hardbottom resource survey (USACE 2011).

**Table 1 Designated Feasibility Study Reaches for Flagler County, Florida**

Section	Location (FDEP monument)	Approximate Extent (miles)
Marineland	1-4	0.63
Painters Hill*	50-60	1.74
Beverly Beach*	60-67	1.14
Flagler Beach*	67-101	6.15

\*Denotes areas to be included in the side scan sonar hardbottom resource survey.

**Authorization.** The authority for conducting this Feasibility Study is contained in House Resolution 2676 adopted May 22, 2002:

“Resolved by the Committee on Transportation and Infrastructure of the United States House of Representatives, that in accordance with Section 110 of the Rivers and Harbors Act of 1962, the Secretary of the Army is requested to review the feasibility of providing shoreline erosion protection, hurricane and storm damage reduction, and related purposes to the shores of Flagler County, Florida.”

In response to this authority, the reconnaissance phase of the study was initiated upon receipt of Federal funds in 2003. The reconnaissance study for Flagler County, Florida, completed in March 2004, recommended that this study continue into the feasibility phase based on the likelihood that a Federal project may be justified and implementable given available information. (USACE 2011).

**Objective.** The objective of this study was to detect and map potential hardbottom resources via remote sensing survey (including the use of sidescan sonar) of Flagler County beaches (from R-50 to R-101, Figure 1). Dial Cordy and Associates Inc. (DC&A) performed the work under Jacksonville District USACE under contract W912EP-11-F-0006. Identification and delineation of potential benthic habitat(s) and substrate types within the study area was conducted.





Source: Jacksonville District, USACE 2011

**Figure 1 Flagler County Study Areas**

## 2.0 METHODS

## 2.1 Field Activities

Sidescan sonar data of the study area was collected below the mean low water line in Flagler County on seven occasions between June 20 and August 4, 2011 (Table 2). Due to perpetual sea state issues (seas over 2 feet), all data could not be collected at the same day or week. The study area included the nearshore submerged substrates extending from 300-ft north of the FDEP marker R-50 to 300-ft south of FDEP marker 101 (at the Volusia-Flagler County line), then waterward from the mean high water line (MHW) directly 1200-ft east of these markers. The linear distance along the shoreline was approximately 9.3 miles. The spatial area encompassed approximately 2.3 square miles (Figure 2).

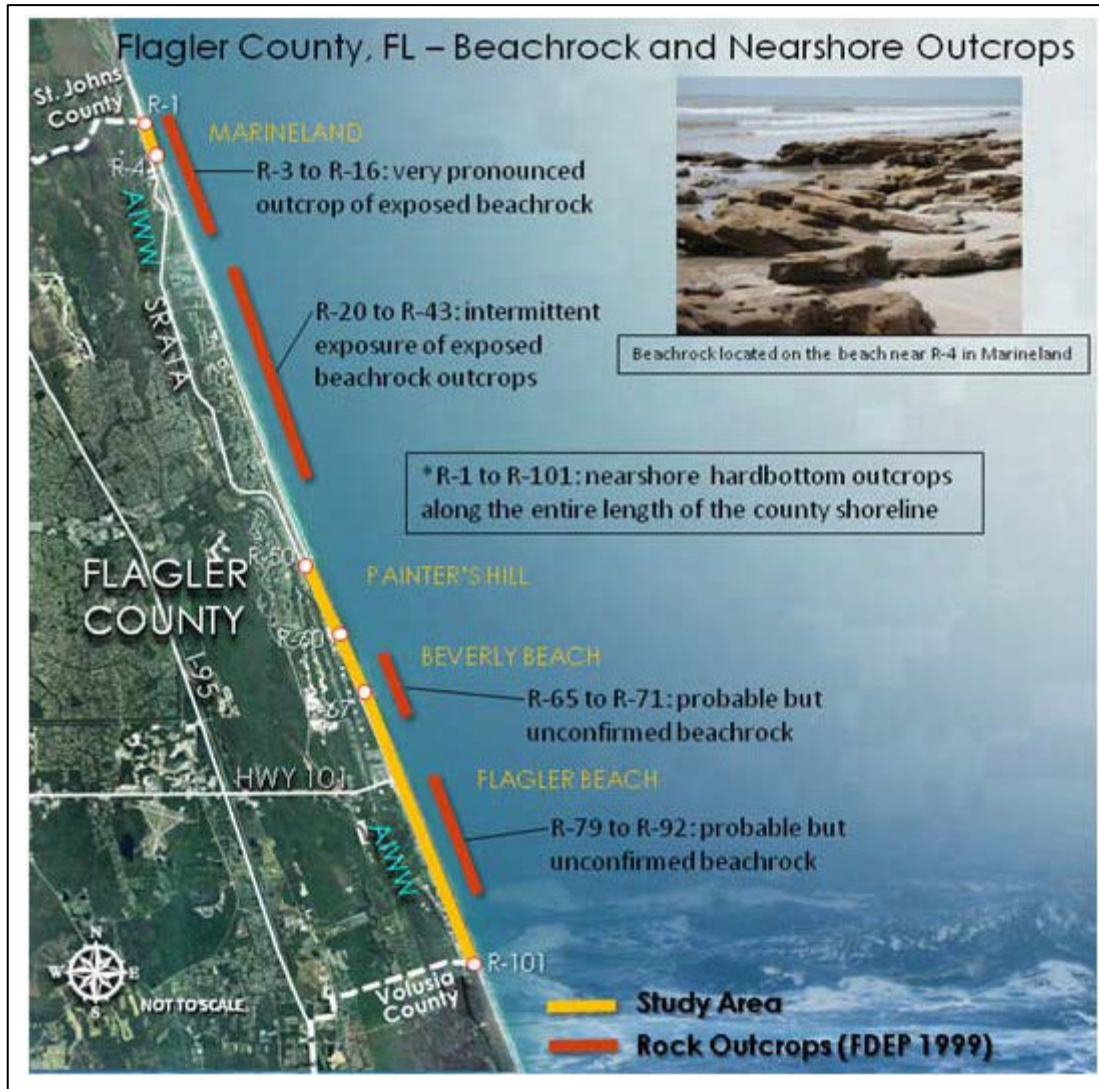
**Table 2. Flagler Nearshore Side Scan Data Acquisition**

			<b>Low</b>	<b>Tide</b>	<b>High</b>	<b>Tide</b>
<b>Date</b>	<b>Start Time</b>	<b>Stop Time</b>	<b>(Time)</b>	<b>(Feet)</b>	<b>(Time)</b>	<b>(Feet)</b>
20-Jun-11	10:45	13:50	6:06	-0.07	12:12	3.50
21-Jun-11	9:20	14:30	6:50	0.06	13:02	3.43
1-Jul-11	10:10	13:35	14:24	-0.42	8:27	3.44
5-Jul-11	10:35	11:20	5:29	-0.47	11:38	3.99
11-Jul-11	11:00	14:30	11:04	-0.45	17:43	4.72
14-Jul-11	12:00	13:45	13:49	-0.55	7:48	3.64
4-Aug-11	7:05	7:55	5:52	-0.51	12:15	4.68
30-Sep-11	10:18	11:30	4:14	-0.22	10:40	5.98

Prior to mobilization, survey lines were established within the survey area using ArcMap 9.2 providing sufficient coverage to detect benthic variation of habitats and delineate their extents (Figure 2). The ArcInfo file was imported into Hypack version 2009a for navigational use.

A 25-foot Parker survey vessel was mobilized for the operation. The sidescan fish was towed off the slightly port side of the bow and submerged to a depth to not be adversely affected by surface waves. A Marine Sonic High Definition Sonar (HDS) 900 kHz high definition side-scan sonar fish in conjunction with a Trimble DSM 232 sub-meter accurate dGPS and Hypack navigation software version 2009a was used to survey each area.

Sidescan sonar coverage was 100 percent. The maximum allowable lateral range was 100 meters, but typically only data collected from within 30 meters of the fish was determined suitable for detailed analysis. With use of the 600 kHz fish, data collected out to 30 meters was determined of sufficient quality for analysis. The sidescan sonar system was operated with sufficient resolution that it was capable of detecting an object on the sea floor measuring 1m x 1m x1m from shadow length measurements. The sidescan towfish was operated at a height above the bottom of 8 to 15 percent of the range scale used. For any towfish height below 8 percent of the range scale in use the effective scanning range was defined to equal 12.5 times the towfish height. The towfish was towed at a speed such that an object 1 m on a side on the sea floor would be independently ensonified a minimum of three times per pass. At a 65 m or less range this was expected to be less than 5 knots.



Source: Jacksonville District, USACE 2011

**Figure 2 Project Map for Flagler County Beach Hardbottom Survey**

## 2.2 Data processing and analysis

**Side Scan Sonar Photo Mosaic.** Pixel resolution of the side scan mosaic produced from the survey was greater than 0.5 m by 0.5 m. The digital image file on the attached DVD is in a standard geo-referenced image format (GeoTiff). The mosaics were generated in one complete image file per scan transect.

**Contact Images.** A list of contacts with significant subsurface features was compiled and included in Appendix A. Contacts with computed target heights (based on the side scan sonar shadow lengths) of at least 1 foot were considered “significant.” Other contacts without shadows

were also considered “significant” if the sonargram signature (e.g., size, shape, or pattern qualities) was notable.

**Data Acquisition and Processing Abstracts.** Data capture was accomplished using Seascan Survey software (Marine Sonics) and the mosaic image was created using Sonar Whiz 5.0 (Chesapeake Technology). Data processing and analysis was accomplished using QTC Swathview seabed classification software (Quester Tangent). All sonargrams and data acquisition/processing comments are available in digital form in the attached DVDs. Sonargrams are submitted in the XTF format.

### 3.0 RESULTS AND DISCUSSION

Figure 3 presents the mosaic of the side scan sonar data collected for the project. An electronic copy is included on the DVD for more detailed viewing. The insert included on Figure 3 provides an example of the resolution and detail that was the basis for the additional analysis. Three different features are included in the insert including washboard sand, exposed or near-surface rock, and boat wreckage debris.

Figure 4 provides a key for the analysis of the processed side scan data that is provided in more detail in Figures 4A through 4E. While the majority of the study area was determined to consist of sandy substrates, linear bands of sand with shell hash were parallel to the shoreline, mainly around the 5-foot depth contour line. The shell hash extends throughout the full range (north to south) of the study area.

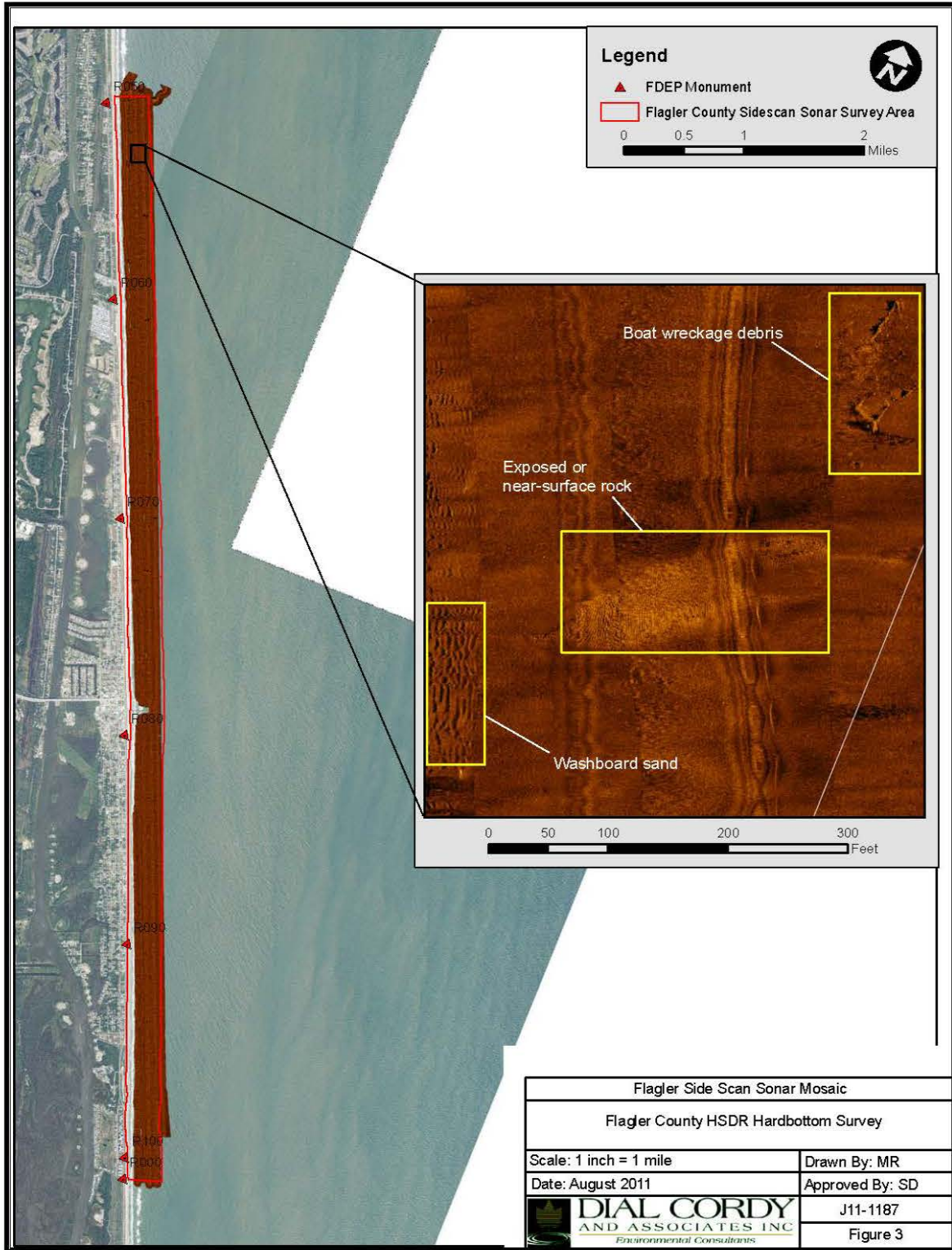
Approximately 75 isolated areas of either exposed rock or near-surface rock are scattered throughout the study area, predominately between the 10-foot and 15-foot depth contours (Appendix A). These areas tended to run perpendicular to the shoreline and were more concentrated in the central region of the study area. However, as seen in Figure 4A, a number of small, isolated areas of exposed/near-surface rock were identified west of the 5-foot contour line, but are restricted to the northern portion of the study area.

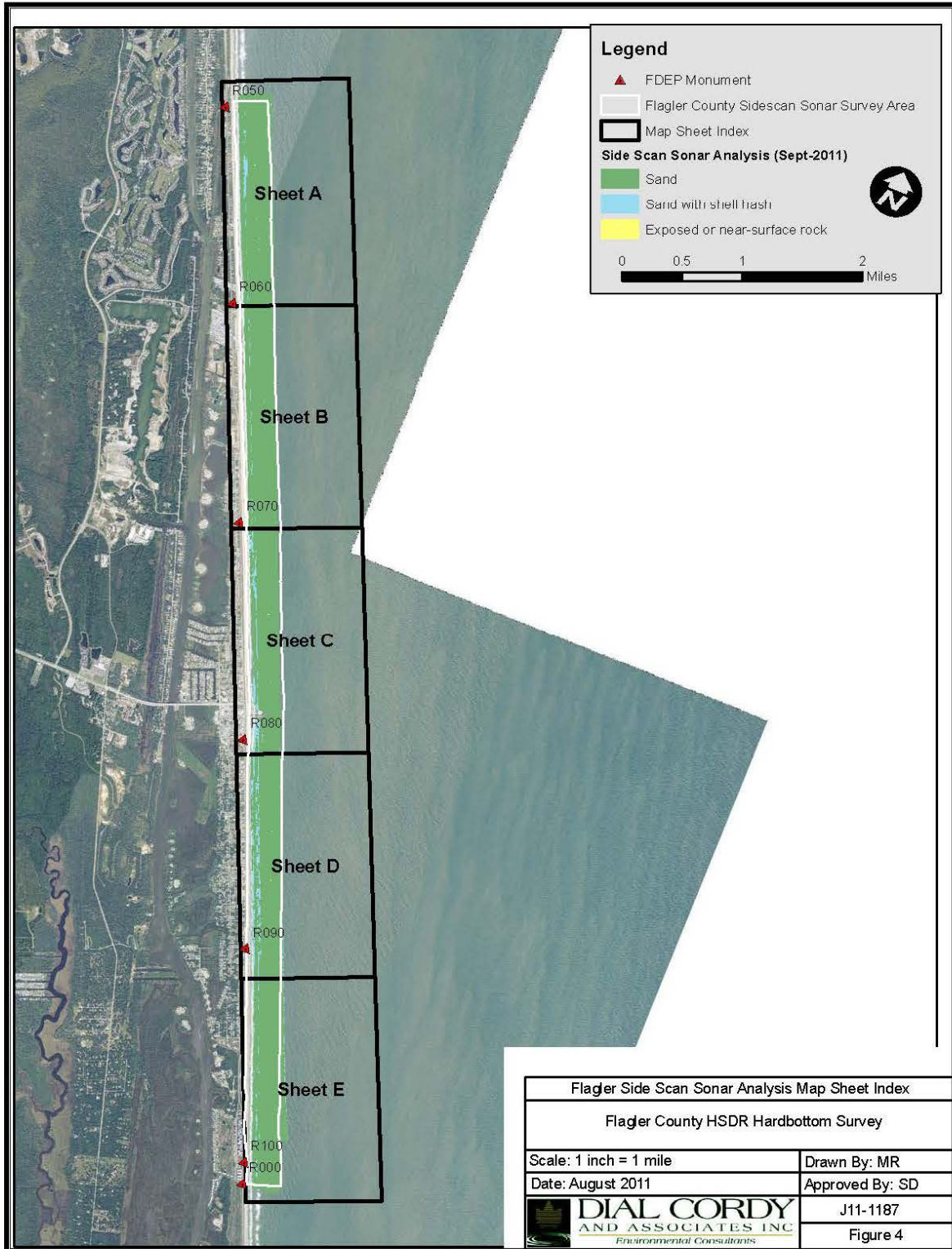
Confirmation of the substrate signatures may require additional investigation. Towed video or diver surveys or a combination of the two would determine if any of the areas designated as potential exposed rock contained biological resources that could be affected by beach fill. In addition, the boat wreckage debris site would require investigation to determine any historical or cultural significance.

### 4.0 LITERATURE CITED AND CONSULTED

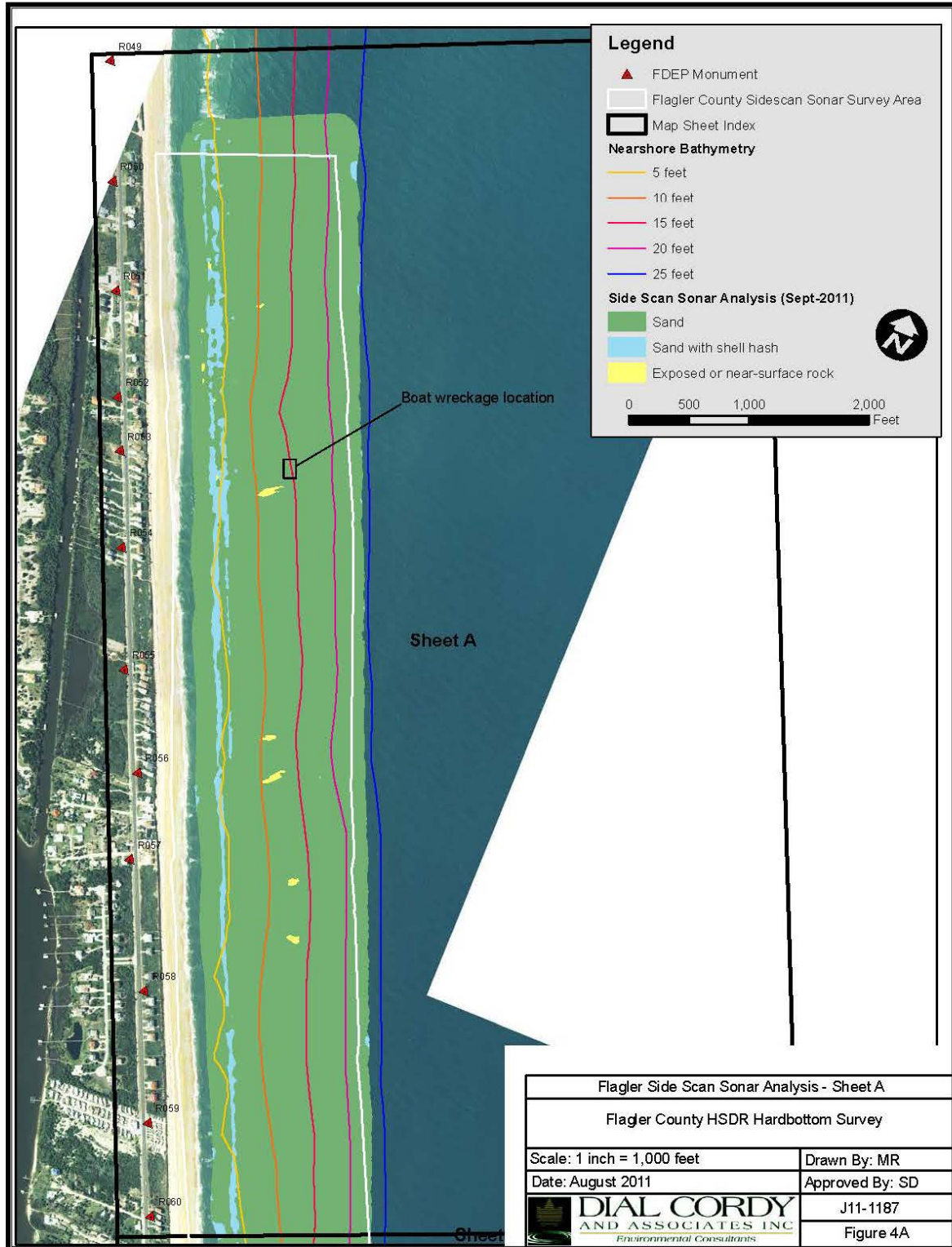
U.S. Army Corps of Engineers (USACE). 2011. Performance Work Statement, Sidescan Sonar Survey for Hardbottom Resources for the Flagler County Hurricane and Storm Damage Reduction Feasibility Study. Jacksonville, FL. 24 pp.

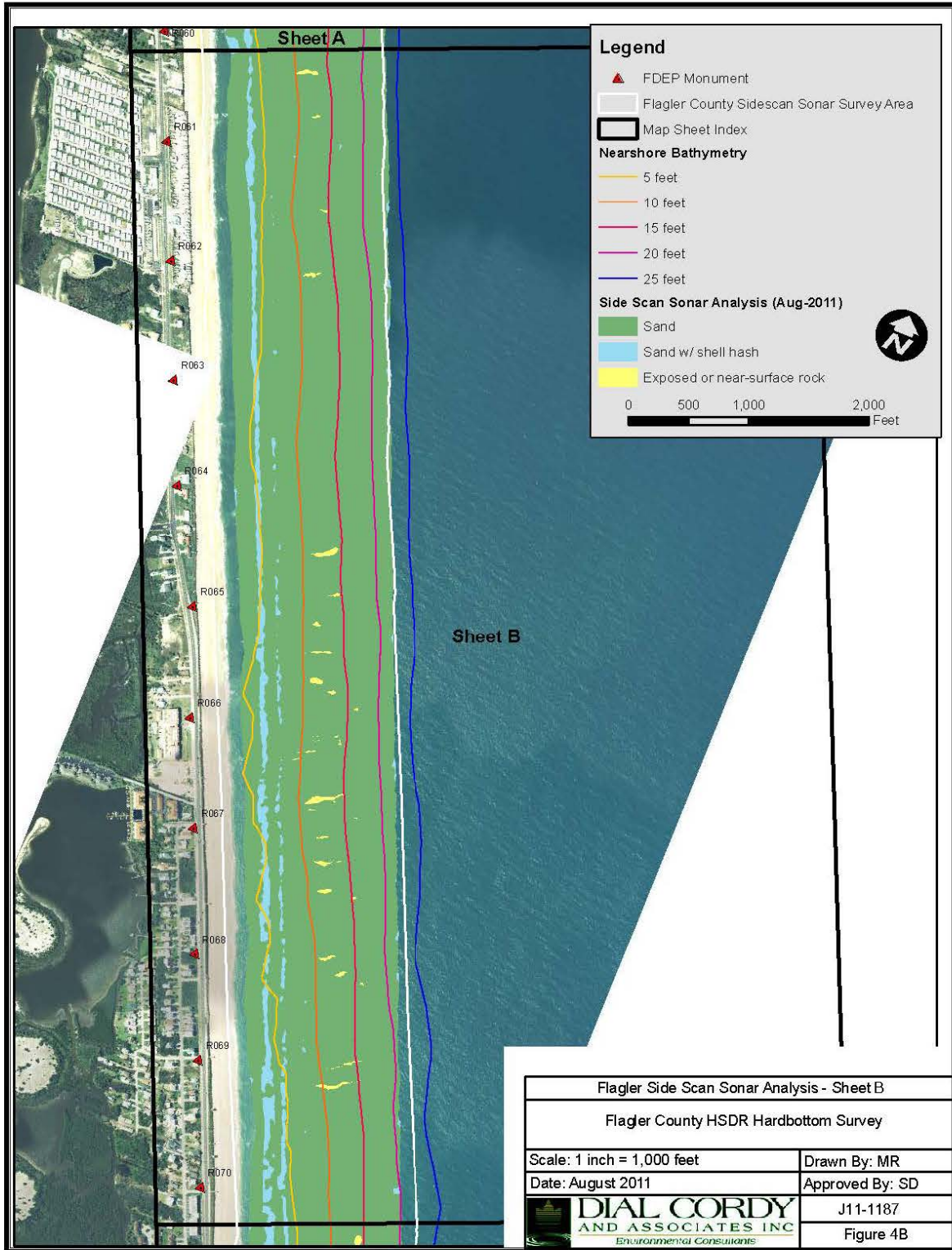




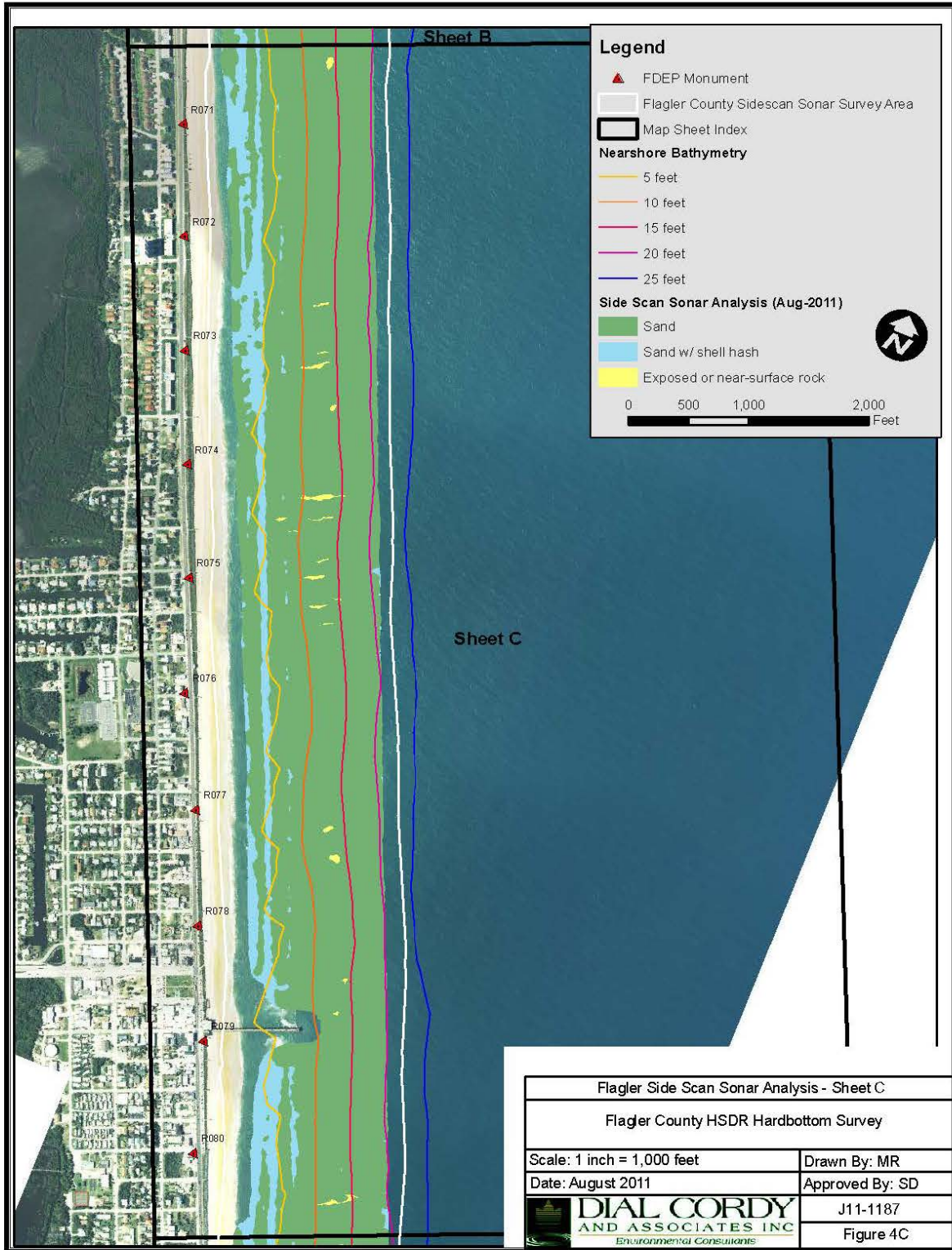


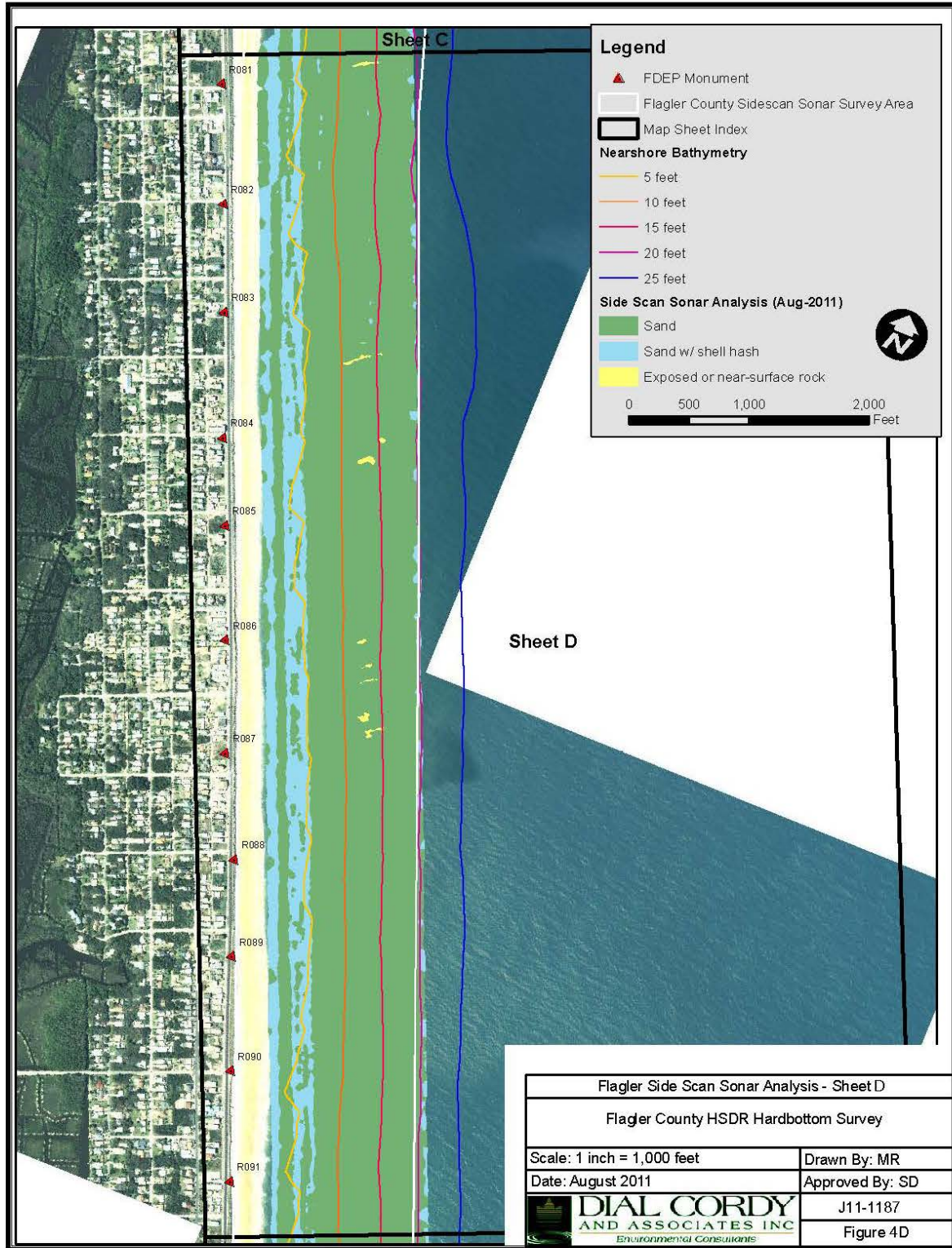




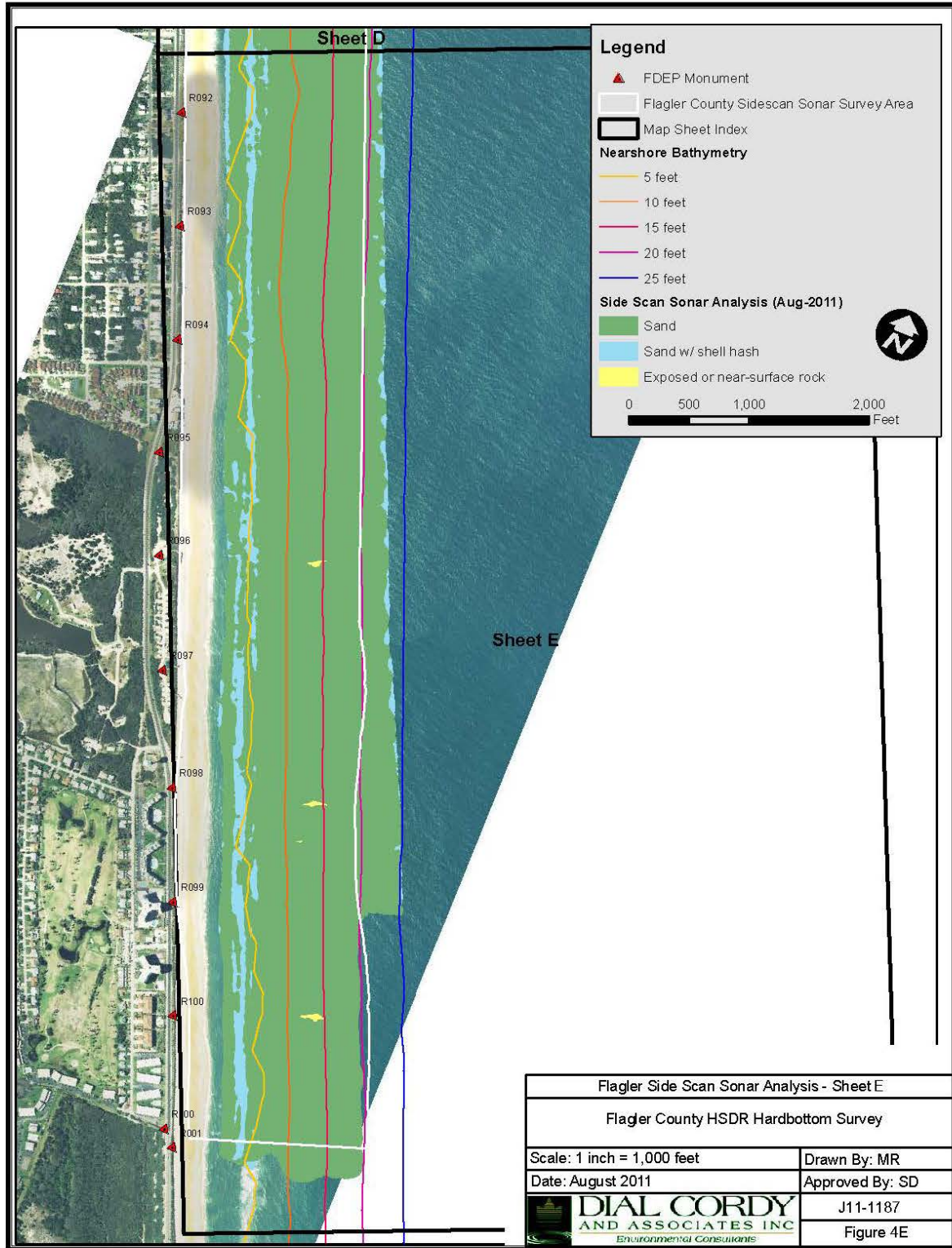













Flagler Side Scan Sonar Analysis - Sheet E	
Flagler County HSDR Hardbottom Survey	
Scale: 1 inch = 1,000 feet	Drawn By: MR
Date: August 2011	Approved By: SD
 <b>DIAL CORDY AND ASSOCIATES INC</b> <i>Environmental Consultants</i>	J11-1187
	Figure 4E

## Appendix A

### Flagler County HSDR Hardbottom Survey Contact Coordinate Table

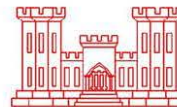
**Flagler County HSDR Harbottom Survey Anomale Coordinate Table**

GRIDCODE	CLASS_ID	CLASS_DESC	X*	Y*
10	3	Exposed or near-surface rock	606036	1894963
10	3	Exposed or near-surface rock	606180	1894442
10	3	Exposed or near-surface rock	606302	1894162
10	3	Exposed or near-surface rock	606345	1894057
10	3	Exposed or near-surface rock	606493	1893941
10	3	Exposed or near-surface rock	606712	1893434
10	3	Exposed or near-surface rock	606754	1893354
10	3	Exposed or near-surface rock	611766	1882859
10	3	Exposed or near-surface rock	613838	1878655
10	3	Exposed or near-surface rock	616220	1872716
10	3	Exposed or near-surface rock	616365	1872511
10	3	Exposed or near-surface rock	618932	1866656
10	3	Exposed or near-surface rock	618876	1866451
10	3	Exposed or near-surface rock	606552	1894818
10	3	Exposed or near-surface rock	607968	1891493
10	3	Exposed or near-surface rock	608130	1891204
10	3	Exposed or near-surface rock	608607	1890456
10	3	Exposed or near-surface rock	608790	1890014
10	3	Exposed or near-surface rock	609793	1887544
10	3	Exposed or near-surface rock	609997	1887229
10	3	Exposed or near-surface rock	610356	1886523
10	3	Exposed or near-surface rock	610465	1885992
10	3	Exposed or near-surface rock	611444	1883889
10	3	Exposed or near-surface rock	611587	1883303
10	3	Exposed or near-surface rock	611639	1883588
10	3	Exposed or near-surface rock	611703	1883091
10	3	Exposed or near-surface rock	611919	1882819
10	3	Exposed or near-surface rock	612164	1882765
10	3	Exposed or near-surface rock	612096	1882495
10	3	Exposed or near-surface rock	611934	1882427
10	3	Exposed or near-surface rock	611946	1882396
10	3	Exposed or near-surface rock	612142	1882455
10	3	Exposed or near-surface rock	611914	1882283
10	3	Exposed or near-surface rock	611867	1882203
10	3	Exposed or near-surface rock	612184	1881966
10	3	Exposed or near-surface rock	612128	1881846
10	3	Exposed or near-surface rock	612500	1881922
10	3	Exposed or near-surface rock	612403	1881481
10	3	Exposed or near-surface rock	612489	1881263
10	3	Exposed or near-surface rock	612731	1881294
10	3	Exposed or near-surface rock	612299	1881669
10	3	Exposed or near-surface rock	612708	1880749
10	3	Exposed or near-surface rock	612873	1880671
10	3	Exposed or near-surface rock	613063	1880660
10	3	Exposed or near-surface rock	613190	1879983
10	3	Exposed or near-surface rock	613169	1879783
10	3	Exposed or near-surface rock	614523	1876751
10	3	Exposed or near-surface rock	614678	1876263
10	3	Exposed or near-surface rock	614942	1875994

Flagler County HSDR Feasibility Report  
 Environmental Appendix

10	3 Exposed or near-surface rock	614690	1876389
10	3 Exposed or near-surface rock	615127	1875265
10	3 Exposed or near-surface rock	615191	1875097
10	3 Exposed or near-surface rock	615337	1874780
10	3 Exposed or near-surface rock	615331	1874627
10	3 Exposed or near-surface rock	614889	1874972
10	3 Exposed or near-surface rock	615575	1874527
10	3 Exposed or near-surface rock	615445	1874411
10	3 Exposed or near-surface rock	615567	1874303
10	3 Exposed or near-surface rock	615027	1874920
10	3 Exposed or near-surface rock	616826	1871598
10	3 Exposed or near-surface rock	616861	1871316
10	3 Exposed or near-surface rock	617468	1869873
10	3 Exposed or near-surface rock	617621	1869524
10	3 Exposed or near-surface rock	618505	1867218
10	3 Exposed or near-surface rock	618481	1867353
10	3 Exposed or near-surface rock	619530	1864861
10	3 Exposed or near-surface rock	619405	1865030
10	3 Exposed or near-surface rock	619580	1864748
10	3 Exposed or near-surface rock	619664	1864450
10	3 Exposed or near-surface rock	619776	1864369
10	3 Exposed or near-surface rock	622878	1856476
10	3 Exposed or near-surface rock	623621	1854604
10	3 Exposed or near-surface rock	623624	1854266
10	3 Exposed or near-surface rock	624275	1852947
10	3 Exposed or near-surface rock	607205	1893410
0	0 Boat wreckage	607285	1893644

\* Coordinates are in NAD 83 Florida State Plane System (feet)



**SURVEYOR'S REPORT**  
**Hydrographic Survey**  
**Flagler Co. Nearshore Hard Bottom**  
**Flagler County, FL**  
**Survey No. 12-115**

**Report of Survey prepared by:** Matthew Staley P.S.M., U.S. Army Corps of Engineers  
Jacksonville District

**Project:** Flagler County nearshore hard bottom Side-scan, Multi-beam, and Underwater  
Camera Survey FY12

**Location:** Atlantic Ocean, 150-500 yards offshore from Flagler County, Florida.

**Date:** Field data was acquired 16 & 17 Aug 2012.

**Right of Access:** There were no access issues.

**Personnel:** System Operators: Kevin Smith, Chad Harralson, and Matthew Staley  
Boat Captains: Dave Morrison and Rory Riker

**Datum:** The horizontal coordinates are referenced to the State Plane Coordinate System,  
Florida East, North American Datum of 1983 (NAD 83). Elevations are referenced to North  
American Vertical Datum of 1988 (NAVD88).

**Instruments:** The following instruments were used for data collection:

**Survey Vessel:** SV-FLORIDA  
**Data Collection Software:** HYPACK 2011, EdgeTech DISCOVER  
**Side-scan:** EdgeTech 4125 Side-scan Sonar  
**Positioning:** DGPS / Applanix POS MV  
**IMU:** Applanix POS MV

**Field Procedures:** This survey was performed utilizing Differential GPS. Data was collected  
using EdgeTech Discover Software and an Edgetech 4125 Dual Frequency Side-scan operating  
at 400 and 900 kHz. Data was processed using SonarWiz5 software from Chesapeake  
Technology. GeoTIFFS and DXF files were created using SonarWiz5 as deliverables for this  
project.

**Field Conditions:** Sea conditions were on average light (1-3 feet).

**Data Processing:** The survey data was processed immediately upon completion of the survey.  
Processing, Mosaicking, and quality checks were completed in SonarWiz5.



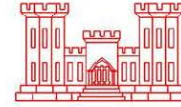


**Data Display:** A total of seven GeoTIFFs were created due to the large scope of the project. These GeoTIFFs range in size from 9 MB to 30 MB. DXF polygon outlines were also created to highlight areas of interest. These polygons are color coded to show changes between current and previous survey data. Found wreckage and other man-made objects on the seafloor were used to rectify and correlate current and previous survey data sets.

**Special Note:** It is the Surveyors opinion, based on the available survey data, that there is no hardbottom reef in the survey area. The current survey data shows no elevated outcroppings or scoured hardbottom areas associated with hardbottom reef. The areas of supposed hardbottom reef were not found in the current survey data as compared to the previous data set. The areas of interest found in the current survey data appear to be compacted sand waves due to their shape, texture, and intensity of signal return. Similar compacted sand waves appear in the previous survey data, but are in different locations and with far less frequency and coverage.

**Special Note:** Upon direction from Planning Division bathymetry data was not collected due to the lack of elevated features.

**Special Note:** Upon direction from Planning Division underwater video was not collected due to recent storm activity and the probable obliteration of compacted sand wave areas.



**MAP SHEET NOTES:**

REFER TO SURVEY NO. 12-115.

PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).

THIS SURVEY WAS PERFORMED USING DIFFERENTIAL GPS POSITIONING

SIDE-SCAN DATA MOSAICS WERE MADE USING AN EDGETECH 4125 OPERATING AT 400/900 KHZ AND PROCESSED USING SONARWIZ5.

<u>SURVEY VESSEL</u>	<u>DATE OF SURVEY</u>	<u>AREA</u>
SV- FLORIDA	16-17 AUG 2012	FLAGLER NEARSHORE HARDBOTTOM

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF SURVEY.

SURVEY ACCURACY STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 1 JAN 02.



**SURVEYOR'S REPORT**  
**Hydrographic Survey**  
**Flagler Beach Offshore Borrow Areas**  
**FY13, Examination Survey**  
**Flagler Beach, FL**  
**Survey No. 13-015**

**Report of Survey prepared by:** Kevin Smith, U.S. Army Corps of Engineers, Jacksonville District

**Project:** Flagler Beach Borrow Areas, FY13 Examination Survey, Flagler Beach, Florida

**Location:** Flagler Beach, Florida

**Date:** Field data was acquired 04-06 February 2013.

**Right of Access:** There were no issues of special access required for this project.

**Personnel:** SV-FLORIDA: System Operators: Tommy Thomas, Rob Jenkins, Kevin Smith

Boat Captains: Dave Morrison and Rory Riker

**Datum:** The horizontal coordinates are referenced to the State Plane Coordinate System, Florida East, North American Datum of 1983 (NAD 83).

**Instruments:** The following instruments were used for data collection:

**Survey Vessel:** FLORIDA  
**Data Collection Software:** Hypack 2011, Discover V3.07  
**Side Scan:** Edgetech 4125 Side scan Sonar Operating at 400/900 kHz  
**Positioning:** Trimble/Applanix POS MV 320  
Trimble 351 DGPS Receiver  
**IMU:** Trimble/Applanix POS MV 320

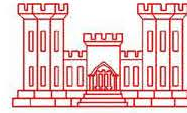
**Field Procedures:** This survey was performed utilizing Differential GPS (DGPS). An Edgetech 4125 was towed behind SV FLORIDA at a length noted daily on the log sheets. A line spacing of 200 feet was used to ensure 150% coverage of all three areas. Biologist Kat McConnell rode along during the first day of data collection.

**Data Processing:** The survey data was processed upon completion of the survey. The software SonarWiz5 was used to post process the raw JSF files. The bottom track filters were applied along with EGN and AGC filters to remove stripping from the data caused by seas. The data from each line was then merged together to form three different mosaics using the 900kHz data, one for each area (See Appendix A). These mosaics were then exported to Google earth for viewing. No targets of interest were found in any areas. There were schools of fish encountered in areas 2A and 2C, along with sand waves and ridges apparent in all three areas. Also in area 2C there are areas of weaker intensity return (Darker Color) which appears to be from different densities of bottom material. It should be noted that any hard bottom would show a higher intensity return (Bright colors) along with some type of shadow to show relief off the surrounding bottom.

---

HYDROGRAPHIC SURVEYING SECTION, CESAJ-OD-N  
<http://www.saj.usace.army.mil/Divisions/Operations/Branches/HydroSurvey/index.htm>





## Appendix A

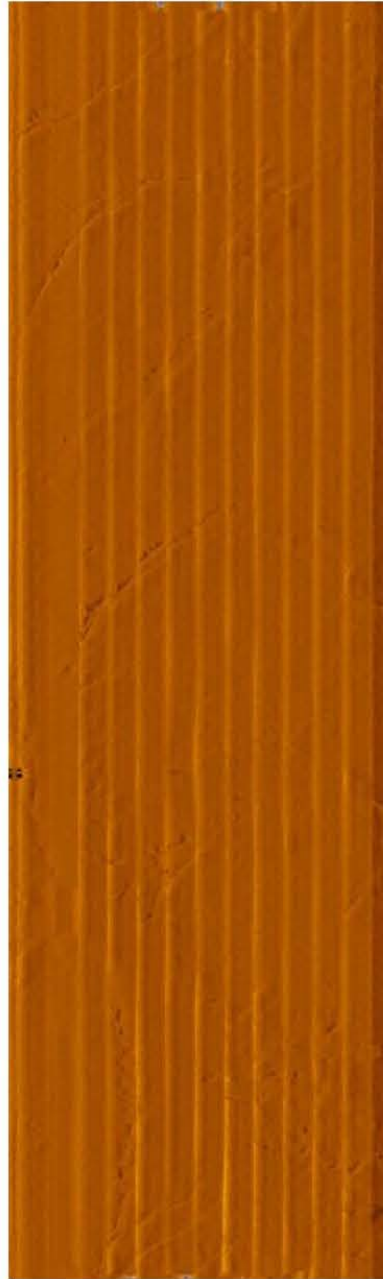
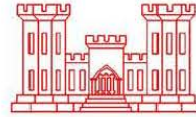


Area 2A





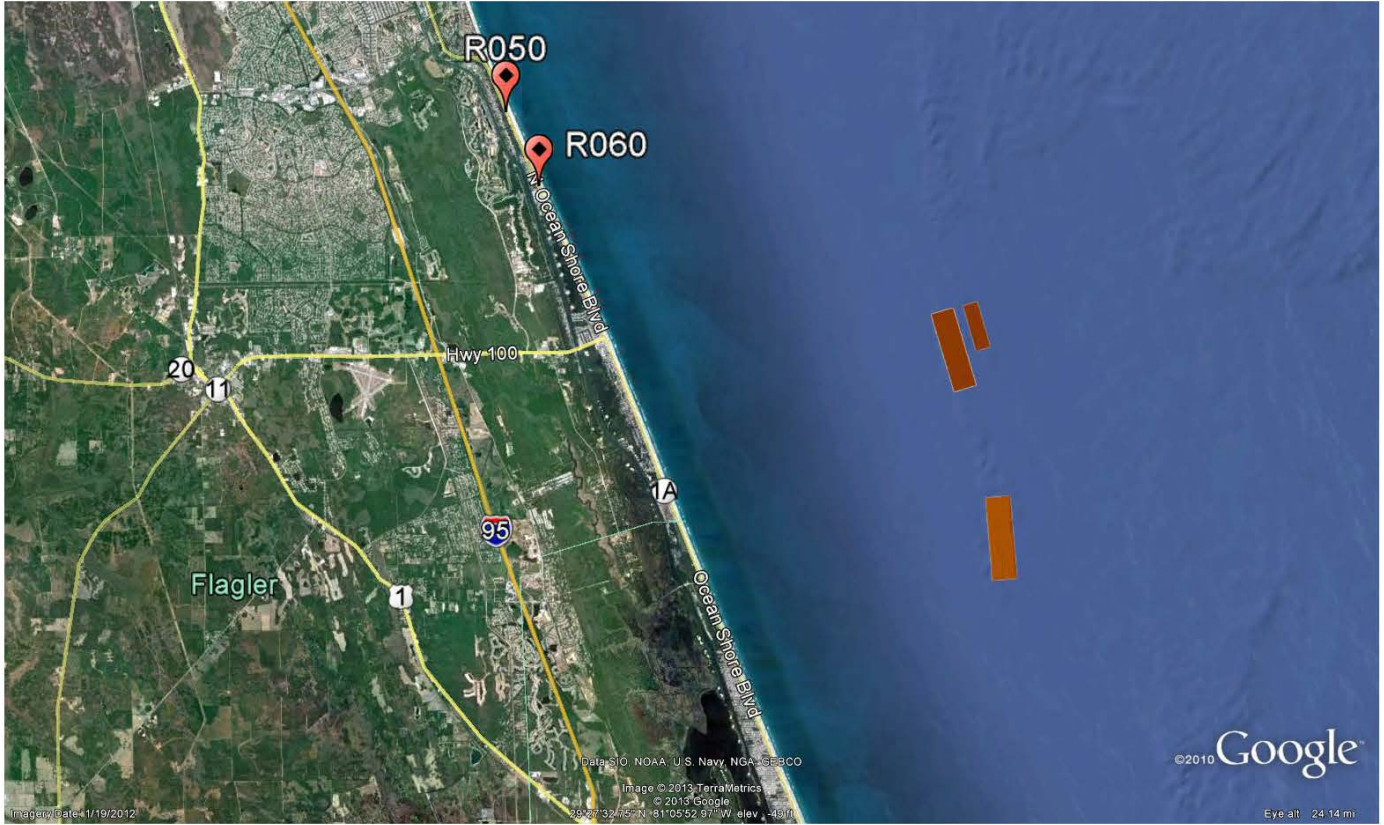
Area 2B



Area 2C

-Note the Google Earth KMZ files have a 1' resolution for better examination of the data.





Flagler County Hurricane Storm Damage Reduction  
Sea Turtle Nesting Data Summary

Year	DR- Name (per FWRI Data)	Design Reach within Federal Interest	DEP Monument	Loggerhead		Green		Leatherback	
				Nest	False Crawls	Nest	False Crawls	Nest	False Crawls
2004	Marineland Beach	No	R-1 to R-12	4	8	3	0	0	0
	Washington Oaks State Park	No	R-12 to R-16	10	3	0	7	0	0
	North Flagler County Beaches	No	R-16 to R-35	34	10	8	4	0	0
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	79	45	9	1	0	0
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	80	42	0	0	0	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	30	7	0	0	0	0
	<b>Total for Year</b>			<b>237</b>	<b>115</b>	<b>20</b>	<b>12</b>	<b>0</b>	<b>0</b>
2005	Marineland Beach	No	R-1 to R-12	8	4	5	0	0	0
	Washington Oaks State Park	No	R-12 to R-16	2	2	2	1	0	0
	North Flagler County Beaches	No	R-16 to R-35	41	7	13	0	2	0
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	89	31	19	0	3	0
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	62	58	8	4	3	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	10	6	0	1	0	0
	<b>Total for Year</b>			<b>212</b>	<b>108</b>	<b>47</b>	<b>6</b>	<b>8</b>	<b>0</b>
2006	Marineland Beach	No	R-1 to R-12	9	4	0	0	0	0
	Washington Oaks State Park	No	R-12 to R-16	3	4	3	1	0	0
	North Flagler County Beaches	No	R-16 to R-35	45	12	11	3	0	0
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	92	44	8	2	1	0
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	62	87	2	1	0	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	92	44	8	2	1	0
	<b>Total for Year</b>			<b>303</b>	<b>195</b>	<b>32</b>	<b>9</b>	<b>2</b>	<b>0</b>

Flagler County HSDR Feasibility Report  
Environmental Appendix

2007	Marineland Beach	No	R-1 to R-12	2	4	1	0	0	0
	Washington Oaks State Park	No	R-12 to R-16	4	7	4	5	0	0
	North Flagler County Beaches	No	R-16 to R-35	55	33	20	3	0	0
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	92	40	52	4	0	0
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	58	61	14	25	0	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	8	13	1	4	1	0
	<b>Total for Year</b>			<b>219</b>	<b>158</b>	<b>92</b>	<b>41</b>	<b>1</b>	<b>0</b>

2008	Marineland Beach	No	R-1 to R-12	15	8	6	3	0	0
	Washington Oaks State Park	No	R-12 to R-16	3	4	6	2	0	0
	North Flagler County Beaches	No	R-16 to R-35	61	12	11	4	0	0
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	142	45	9	0	0	0
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	90	111	1	4	0	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	41	18	2	1	0	0
	<b>Total for Year</b>			<b>352</b>	<b>198</b>	<b>35</b>	<b>14</b>	<b>0</b>	<b>0</b>

2009	Marineland Beach	No	R-1 to R-12	8	0	1	0	0	0
	Washington Oaks State Park	No	R-12 to R-16	12	5	3	2	0	0
	North Flagler County Beaches	No	R-16 to R-35	45	10	12	4	1	0
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	90	36	26	18	5	1
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	42	55	3	4	2	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	29	7	2	0	0	0
	<b>Total for Year</b>			<b>226</b>	<b>113</b>	<b>47</b>	<b>28</b>	<b>8</b>	<b>1</b>

2010	Marineland Beach	No	R-1 to R-12	8	7	1	1	0	0
	Washington Oaks State Park	No	R-12 to R-16	8	5	3	3	0	0
	North Flagler County Beaches	No	R-16 to R-35	135	31	13	9	0	0
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	184	62	25	13	0	0
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	95	89	5	6	0	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	28	9	3	0	0	0
	<b>Total for Year</b>			<b>458</b>	<b>203</b>	<b>50</b>	<b>32</b>	<b>0</b>	<b>0</b>

Flagler County HSDR Feasibility Report  
Environmental Appendix

2011	Marineland Beach	No	R-1 to R-12	11	14	5	1	1	0
	Washington Oaks State Park	No	R-12 to R-16	12	5	5	3	0	0
	North Flagler County Beaches	No	R-16 to R-35	87	16	10	2	5	1
	South Flagler County Beaches	Partially (DR- A and B)	R-35 to R-67	162	34	29	4	4	0
	Flagler Beach	Yes (DR- B, C and D)	R-67 to R-95	72	57	9	2	3	0
	Flagler Beach State Park	Yes (DR- D)	R-95 to R-101	27	4	2	1	0	0
	<b>Total for Year</b>			<b>371</b>	<b>130</b>	<b>60</b>	<b>13</b>	<b>13</b>	<b>1</b>

North Atlantic Right Whale Sightings  
Coastal Flagler County

Date	Location	Species/Class/Number	Notes	Whale ID#
2005 - 2006				
4-Dec	Washington Oaks	Mother/Calf	Photo-verified	2503
15-Jan	Flagler Beach	2 Adults	Not Photo-verified	
30-Jan	Flagler Beach	2 Adults	Not Photo-verified	
1-Mar	Flagler Beach		Stranding Report, Non-verified	
12-Mar	South Flagler Beach		Not verified	
25-Mar	South Flagler Beach		Stranding Report, entangled, possible Volusia County	
2006 - 2007				
29-Dec	Jungle Hut (Palm Coast)	Mother/Calf	Photo-verified	2430
4-Jan	Beverly Beach	Mother/Calf	Photo-verified	2430
5-Jan	South Flagler Beach	Mother/Calf	Photo-verified	2430
25-Jan	Flagler Beach	Mother/Calf	Photo-verified	2601
2-Feb	Flagler Beach	Mother/Calf	Photo-verified	2430
12-Feb	Flagler Beach	Unknown	Not Photo-verified	
13-Feb	Flagler Beach	Mother/Calf	Photo-verified	1425
15-Feb	Flagler Beach	Mother/Calf	Photo-verified	3360
2007 - 2008				
	Data Unavailable			
2008 - 2009				
	Data Unavailable			
2009 - 2010				
14-Jan	Painters Hill	Mother/Calf	Sighted from Air Cam	3157
24-Jan	Flagler Beach	1 Adult	Sighted from Shore	
27-Jan	Marineland	Mother/Calf	Photo-verified	2430
28-Jan	Flagler Pier	Mother/Calf	Sighted from Shore	2430
28-Jan	Marineland	Mother/Calf	Photo-verified	1950
28-Jan	Off-shore Flagler Beach	8 Adults	Two separate sightings	
28-Jan	South of Flagler Pier	2 Adults, Mother/Calf	Two separate sightings	2430 (M/C)
13-Feb	North Flagler Beach	Unknown	Not Photo-verified	
15-Feb	South Flagler Beach	Mother/Calf	Not Photo-verified	
15-Feb	Flagler Pier	1 Humpback	Not Photo-verified	
15-Feb	North Flagler Beach	1 Humpback	Maybe duplicate sighting of same individual	
16-Feb	Flagler Beach	1 Humpback	Not Photo-verified	



Flagler County HSDR Feasibility Report  
 Environmental Appendix

Date	Location	Species/Class/Number	Notes	Whale ID#
16-Feb	North Flagler Beach	1 Humpback	Maybe duplicate sighting of same individual	
16-Feb	Beverly Beach	1 Humpback	Maybe duplicate sighting of same individual	
19-Feb	Beverly Beach	Mother/Calf	Photo-verified	3123
20-Feb	Beverly Beach	1 Adult	Photo-verified	
20-Feb	North Flagler Beach	2 Adults	Not Photo-verified	
22-Feb	Flagler Beach	Mother/Calf	Photo-verified	3123
2-Mar	South Flagler Beach	3 Adults, Mother/Calf	Photo-verified	3123 (M/C)
15-Mar	South Flagler Beach	2 or 3 Humpback	Not Photo-verified	
24-Mar	Flagler Beach	1 Humpback	Air Cam Verified	
29-Mar	Flagler Beach	Mother/Calf, 3 Juveniles	Photo-verified	2614 (M/C)
2010 - 2011				
5-Jan	North Flagler Beach	2 Adults, 1 Juvenile	Photo-verified	calf of 2645
9-Jan	Flagler Pier	Unknown	Not Photo-verified	
18-Jan	Flagler Pier	1 Adult, 1 Juvenile	Photo-verified	
19-Jan	South of Flagler Pier	Mother/Calf	Photo-verified	1911
19-Jan	South of Flagler Pier	1 Adult, 1 Juvenile	Photo-verified, Prop Scars	2010 calf of 3123
19-Jan	South Flagler Beach	1 Adult, 1 Juvenile	Photo-verified	2010 calf of 3123
1-Feb	Flagler Beach	Mother/Calf	Photo-verified	3270
3-Feb	North Flagler Beach	2 Adult, 1 Juvenile	Photo-verified	
18-Feb	Beverly Beach	1 Humpback Juvenile	Sighted from Air Cam	
2011 - 2012	North Flagler Beach	1 Juvenile	Carcass washed up on beach 12/19/12. No other sightings	

**FLAGLER COUNTY FLORIDA  
HURRICANE & STORM DAMAGE REDUCTION  
STUDY  
PUBLIC MAILING LIST**

**MARCH 2013**

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LEASING DIVISION  
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USCG SECTOR JACKSONVILLE  
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MIAMI FL 33132 2111

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US COAST GUARD  
909 SE 1ST AVENUE  
BRICKNELL PLAZA FEDERAL BLDG  
MIAMI FLORIDA 33131 3050

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STE 309  
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HONORABLE BILL NELSON  
UNITED STATES SENATOR  
716 HART SENATE OFFICE BLDG  
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ST SEN JOHN THRASHER DIST 6  
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404 SOUTH MONROE STREET  
TALLAHASSEE FL 32399 1100

ST REP RONALD RENUART DIST 17  
204 HOUSE OFFICE BLDG  
402 MONROE STREET  
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1769 EAST MOODY BLVD BLDG 2  
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TIITF OF FLORIDA  
DIVISION OF STATE LANDS  
C/O DEP  
3900 COMMONWEALTH BLVD  
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9600 OCEANSHORE BLVD  
ST AUGUSTINE FL 32080**

**FDEP COASTAL MANAGEMENT PROGRAM  
3900 COMMONWEALTH BLVD  
MAIL STATION 47  
TALLAHASSEE FL 32399-2400**

**FLAGLER COUNTY FLORIDA  
HURRICANE & STORM DAMAGE  
REDUCTION STUDY  
PROPERTY OWNERS MAILING LIST  
MARCH 2013**

GA AQUARIUM INC  
225 BAKER STRET  
ATLANTA GA 30313

MATANZAS SHORES OWNERS  
ASSOCIATION  
110 E COLLECTORS RD  
PALM COAST FL 32137

RE: FLAGLER CO SHORELINE PROPERTIES  
CENTEX HOMES  
2301 LUCIEN WAY  
STE 400  
MAITLAND FL 32751

RE: 7115 OCEANSHORE BLVD N  
MASK PARTNERS LLC  
550 MAMARONECK AVE  
HARRISON NY 10528

RE: 7107 OCEANSHORE BLVD N  
BULL MOUNTAIN OF GA LLC  
4113 MONTICELLO ST  
COVINGTON GA 30014

RE; 7103 OCEANSHORE BLVD N  
JAMES AND NACY MCGUIGAN  
12221 SW 16<sup>TH</sup> ST  
MICANOPY FL 32667

RE: 7095 OCEANSHORE BLVD N  
2250 NW 6<sup>TH</sup> PLACE  
GAINSEVILLE FL 32603

RE: 7089 OCEANSHORE BLVD N  
BOBBY AND SABRINA POSEY  
2621 E TYGER BRIDGE RD  
GREER SC 29651 4962

RE: 7085 OCEANSHORE BLVD N  
DR JOHN ARNOLD MD  
666 SEMINOLE DR  
WINTER PARK FL 32789 2643

RE: 7077 OCEANSHORE BLVD N  
JOHN AND MARY ELLEN COHEN-SHOHET  
6565 SW 184<sup>TH</sup> TERRACE RD  
OCALA FL 34474 5922

RE: 7069 OCEANSHORE BLVD N  
STEPHEN SPURRIER  
USC FOOTBALL OFFICE  
1125 GEORGE ORGERS BLVD  
COLUMBIA SC 29208

RE: 7063 OCEANSHORE BLVD N  
MCNAB DEVELOPMENT AND  
CONSTRUCTION CORPORATION  
20 RUE GRAND MER  
PALM COAST FL 31237

RE: OCEANSHORE BLVD N  
KUAR HUNJAN  
14232 CARRS LANDING RD  
WINFIELD BC

RE: 7032 OCEANSHORE BLVD N  
MID OHIO SECURITIES CORP TRUSTEE  
C/O ERICA DORRANCE  
3569 NW 89<sup>TH</sup> LN  
LAKE BUTLER FL 32054

RE: 7051 OCEANSHORE BLVD N  
VALERIA LYNCH TRUSTEE  
7052 OCEANSHORE BLVD N  
PALM COAST FL 32137

RE: 7031 OCEANSHORE BLVD N  
GEORGE F AND DANA K CAUSEY  
160 FORTY LOVE PT  
CHAPIN SC 29036

RE: 7029 OCEANSHORE BLVD N  
RAYMOND AND HELEN DEW  
PO BOX 354782  
PALM COAST FL 32135 4782

RE: 7023 OCEANSHORE BLVD N  
DOUGLAS AND ERICA M DEW OCEANSHORE  
BLVD N  
PALM COAST FL 32137

RE: 7019 OCEANSHORE BLVD N  
F ALLEN AND LAURA REYMOLDS  
277 N BEACH ST  
ORMAND BEACH FL 32174

RE: 7013 OCEANSHORE BLVD N  
TIMOTHY AND REBECCA EGNON,  
DONALD AND VICKY MURPHEY  
7013 OCEANSHORE BLVD N  
PALM COAST FL 32137

RE: 7009 OCEANSHORE BLVD N  
ALAN AND ALMA FITZWATER  
7009 OCEANSHORE BLVD N  
PALM COAST FL 32137 2312

RE: 7001 OCEANSHORE BLVD N &  
17 OCEAN SUNE CIR  
WILLIAM C BRUNK  
2110 CIRCLE DR  
COLUMBUS OH 43220

RE: 6995 OCEANSHORE BLVD N  
GERALD AND KAREN PONDER  
2508 ARENDELL WAY  
TALLAHASSEE FL 32308

RE: 6987 OCEANSHORE BLVD N  
JAMES P KURDZIEL  
4631 HARBOR POINT DR  
PORT RICHEY FL 34668

RE: 6979 OCEANSHORE BLVD N;  
SE OF ORLANDO LLC  
502 PALMER ST  
ORLANDO FL 32801

RE: 6973 OCEANSIDE BLVD N  
TIMOTHY D AND LYNNM HOWARD  
6973 OCEANSHORE BLVD N  
PALM COAST FL 32137

RE:6969 OCEANSHORE BLVD N  
ELLIS WILLIAM MOORE  
13030 136<sup>TH</sup> AV NE  
KIRKLAND WA 98034

RE:6961 OCEANSHORE BLVD N  
JOHN AND LESLIE C RANDOLPH  
6201 S FLAGLER DR  
WEST PALM BEACH FL 33405

RE: 6955 OCEANSHORE BLVD N  
JAMES AND BONNIE MORGAN  
1353 SOUTH BLUE LAKE AVE  
DELAND FL 32724

RE: 68 ATLANTIC DR  
FRANK J & ALTBERTA MORELLI  
68 ATLANTIC DR  
PALM COAST FL 32137

RE: 3397 OCEANSHORE BLVD N  
LONNY BLACK  
9610 NW 115<sup>TH</sup> AVE  
OCALA FL 34482

RE: 3335 OCEANSHORE BLVD N  
ROBERT A SOUZA  
559 N 10TH STREET  
FLAGLER BEACH FL 32136

RE:3431 OCEANSHORE BLVD N  
DAVID & BERNADETTE WILLIAMS  
3431 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2815 OCEANSHORE BLVD N  
BEVERLY BEACH ENTERPRISES INC  
PO BOX 1048  
FLAGLER BEACH FL 32136

RE:19 OCEAN DUNE CIRCLE  
PAVLOS JOHN & SHARON PAVLOS  
19 OCEAN DUNE CIRCLE  
PALM COAST FL 32137

RE: 3385 OCEANSHORE BLVD N  
CENTRAL FLORIDA DEVELOPMENT  
EAST LLC  
300 N MAITLAND AVE  
MAITLAND FL 32751

RE:3349 OCEANSHORE BLVD N  
EDDIE R FINNEY LIFE ESTATE  
PO BOX 446  
FLAGLER BEACH FL 32136

RE:3365 OCEANSHORE BLVD N  
BOWEN ROY  
P.O. BOX 350956  
PALM COAST FL 32135 0956

LANE RONALD G & DIANNE R  
TRUSTEES  
3017 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 67 FLAGLER DR  
PETER H & CYNTHIA A HOPFE  
67 FLAGLER DR – HAMMOCK  
PALM COAST FL 32137

RE: 3239 OCEANSHORE BLVD N  
THOMAS C & JOYCE W LODGE  
2391 LAKE TALMADGE DR  
DELAND FL 32724

RE: 65 ATLANTIC DR  
WALTER R & LINDA J BLAKE  
8876 SE OAKS WAY N #402  
VERO BEACH FL 32963

FLAGLER BY THE SEA INC  
2982 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

PAINTERS WALK HOA  
C/O CAROL OARVETZ  
P O BOX 2360  
FLAGLER BEACH FL 32136

RE: 6947 OCEANSHORE BLVD N  
PETER SCHMIDT  
7276 DELAMATER RD  
DERBY NY 14047

RE: 6943 OCEANSHORE BLVD N  
JESSE AND CLARK PACE  
6943 OCEANSHORE BLVD N  
PALM COAST FL 32137 2310

RE: 6939 OCEANSHORE BLVD N  
NOB LLC  
1419 OAK FOREST DR  
ORMAND BEACH FL 32174

RE: 6931 OCEANSHORE BLVD N  
SANDEEP AND ROHINI BAJAJ  
6931 OCEANSHORE BLVD N  
PALM COAST FL 32137

RE: 6925 OCEANSHORE BLVD N  
DOUGLAS JENNINGS  
2358 RIVERSIDE AVE APT 601  
JACKSONVILLE FL 32204

RE: 6929 OCEANSHORE BLVD N  
HARI MAHU FL LLC  
432 OSCEOLA AVE  
JACKSONVILLE BEACH FL 32250

RE: 2597 OCEANSHORE BLVD N  
JOSEPH D & SARAH H JOHNSON  
2597 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD N PROPERTY  
MATANZAS SHORES COA  
110 E COLLECTORS RD  
PALM COAST FL 32137

RE:101 16<sup>TH</sup> RD  
HAMMOCK BEACH OCEAN LLC  
7855 B OSCEOLA POLK LINE RD  
DAVENPORT FL 33896

KENT NORMAN A TRUSTEE  
P O BOX 1749  
FLAGLER BEACH FL 32136

RE: 2481 OCEANSHORE BLVD N  
BIELEFELDT KARL & MARTHA  
LEAVINES LIFE ESTATE  
2481 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136-2713

RE: 2235 OCEANSHORE BLVD N  
TIDWELL WILLIAM HAMPTON &  
BETTY A  
2235 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2571 OCEANSHORE BLVD N  
SPECKHAHN HENRY D AND  
INGEBORG S SPECKHAHN  
2571 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

LEMNOUNI SIDI M &  
DONNA E  
200 MARINA BAY DRIVE #206  
FLAGLER BEACH FL 32136

RE: 2585 OCEANSHORE BLVD N  
STEVEN GOLDIN  
27950 SW 182ND AVENUE  
HOMESTEAD FL 33031

RE: 2024 S OCEANSHORE BLVD  
THOMAS C & EDWARD GARRIS  
WALTER GARRIES III JTWROS  
PO BOX 2182  
FLAGLER BEACH FL 32136

RE: 2475 & 2469 OCEANSHORE BLVD N  
MOOD EMMETT A  
PO BOX 2090  
FLAGLER BEACH FL 32136

1937 N OCEANSHORE LLC  
1583 CARTERETT AVE  
CHARLESTON NC 29407

RE: 2514 OCEANSHORE BLVD N  
COOK DAVID JOHNSTON SR  
C/O DENNIS BAKER  
109 6<sup>TH</sup> ST  
FLAGLER BEACH FL 32136

RE: 2488 OCEANSHORE BLVD N  
FLAGLER OCEANFRONT  
ENTERPRISES LLC  
1544 S A1A  
FLAGLER BEACH FL 32136

RE: 2501 N OCEANSHORE BLVD  
PROPERTY  
JER & ASSOCIATES  
4830 BUTTERFIELD RD  
HILLSIDE IL 60162

RE: 6917 OCEANSHORE BLVD N  
CHRISTIAN KOCH  
6917 OCEANSHORE BLVD N  
PALM COAST FL 32137

RE: 6653 OCEANSHORE BLVD N  
GERARD PATELLA  
6653 N OCEANSHORE BLVD  
PALM COAST FL 32137

RE: 6645 OCEANSHORE BLVD N  
CONSOLIDATED CAPITAL  
217 N WESTMONTE DR STE 1007  
ALTEMONTE SPRINGS FL 32714

RE: OCEANSHORE BLVD PROPERTY  
JR HANFORD AND HAL SMITH HANFORD  
TRUSTEES  
22 OCEAN DR  
ST AUGUSTINE FL 32080

RE: 63 OCEANSIDE DR  
BRIAN JAMES PAPPAS  
63 OCEANSIDE DR  
PALM COAST FL 32137

RE: 59 OCEANSIDE DR  
RUSSELL AND MARGARET GREEN III  
6917 NW 52<sup>ND</sup> LN  
GAINESVILLE FL 32653

RE: 58 OCEANSIDE DR  
WAYNE SIBBERT AND ESTER FORTLEY  
2623 SEVILLE BLVD #203  
CLEARWATER FL 33764

RE: 61 OCEAN ST  
SCOTT AND FRANCINE BEAT  
LIFE ESTATE  
61 OCEAN ST  
PALM COAST FL 32137

RE: 62 OCEAN ST  
THOMAS AND SHARLAE CREWS  
106 PROCTOR SR  
STATESBORO GA 30458

RE: 60 SEASCAPE DR  
TODD AND MONICA KINNEBREW  
200 MILL POND  
PLANTATION WAY  
WARNER ROBBINS GA 31088

RE: 58 SEASCAPE DR  
RICHARD C MCBRIDE SR TRUSTEE  
58 SEASCAPE DR  
PALM COAST FL 32137

RE: 63 MOODY LN  
UWE AND LINDA ROSS  
888 SUMNEYTOWN PIKE  
LANSDALE PA 19446

RE: 66 MOODY DR  
STEVE AND PAIGE CHESNUT  
66 MOODY DR  
PALM COAST FL 32137

RE: 30 AVENUE ROYALE  
HAMMOCK DUNES OWNERS ASSO  
PO BOX 353338  
PALM COAST FL 32135

RE: 3527 OCEANSHORE BLVD N  
COLEMAN WILLIAM L &  
GWYNNETH GAIL TRUSTEE  
2447 RIDGE WILL DRIVE  
JACKSONVILLE FL 3 2246

RE: 3543 OCEANSHORE BLVD N  
EDWARD R & DENISE A MIMS  
P O BOX 2712  
PALATKA FL 32178 2712

RE: 3551 OCEANSHORE BLVD N  
HAMMOCK MOORINGS NORTH  
HOMEOWNERS ASSO INC  
5455 HIGHWAY A1A S  
ST AUGUSTINE FL 32080

RE: 3569 OCEANSHORE BLVD N  
SANDRA DIANA KHALILI TRUSTEE  
3315 YORK ROAD  
OAK BROOK IL 60521

RE: 11 OCEAN DUNE CIR  
CHALRES & TEENA ELLEN WEISS  
PBO BOX 353819  
PALM COAST FL 32135 3819

RE: 3537 OCEANSHORE BLVD N  
ROBERT J JR & JOAN E DUHAIME  
1421 AUTUMN LEAF RD  
TOWSON MD 21286

RE: 3523 OCEANSHORE BLVD N  
CALLAVA LETICIA ASW  
540 ARAGON AVE  
CORAL GABLES FL 33134

RE: N OCEANSHORE BLVD PROPERTY  
DE HOYOS EVELIO &  
ELIN SATORY DE HOYOS  
1000 OLD ENGLAND AVENUE  
WINTER PARK FL 32789

RE: 3531 OCEANSHORE BLVD N  
JUSTESEN EVELYN AND  
NANCY M BLY CO TRUSTEES  
52 MADISON ST  
PEQUANNOCK NJ 07440

RE: 3539 OCEANSHORE BLVD N  
AURIA KOHLER  
PO BOX 938  
POMPAÑO BEACH FL 33061

RE: 3519 OCEANSHORE BLVD N  
MARKS FAMILY INC  
5350 SE 18<sup>TH</sup> LANE  
OCALA FL 34480

RE: 3511 OCEANSHORE BLVD N  
GAMBLE NELSON R & DEBRA A  
1301 N CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: 3505 OCEANSHORE BLVD N  
CARNEIRO MANUEL AND  
4 CLASSIC CT S  
PALM COAST FL 32137

RE: 3489 OCEANSHORE BLVD N  
POTAPOW MICHAEL G  
6383 SW 21ST COURT RD  
OCALA FL 34474

RE: 3481 OCEANSHORE BLVD N  
LANGELLO GRACE M  
3481 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3473 OCEANSHORE BLVD N  
KAREN K GOES  
138 PALM COAST PKWY  
BOX 171  
PALM COAST FL 32137

RE: 3461 OCEANSHORE BLVD N  
ALAN L & LINDA D STERLING  
1624 CLEARVIEW DR  
BRENTWOOD TN 37027

RE: 3453 OCEANSHORE BLVD N  
LYNCH MICHAEL B &  
SUSAN C PURYEAR  
16612 JOHNS LAKE RD  
CLERMONT FL 34711

RE: 3445 OCEANSHORE BLVD N  
DARRYL AND LUCILLE MASLAK  
310 CARTER RD  
THOMASTON CT 06787

RE: 3429 OCEANSHORE BLVD N  
CARLOS LUCERO  
4640 PARK NEWPORT  
NEWPORT BEACH CA 92660 6056

RE: 3423 OCEANSHORE BLVD N  
GREGORY A JOHNSTON  
3423 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: 3417 OCEANSHORE BLVD N  
NEW HAVEN TRUST CO TRUSTEE  
1 LEFEBVRE ST  
ST PETER PORT  
GUERNSEY GY1 4JE

RE: 3409 OCEANSHORE BLVD N  
DIX JAMES D & LINDA LEE DIX  
3409 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3399 OCEANSHORE BLVD N  
JAMES T CULLIS  
3399 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: 3397 OCEANSHORE BLVD N  
LONNYE R BLACK  
9610 NW 115<sup>TH</sup> AVE  
OCALA FL 34482

RE: 3395 OCEANSHORE BLVD N  
CHRIS AND ANDREA PAPPOU  
3209 NE 40<sup>TH</sup> ST  
FT LAUDERDALE FL 33308

RE: 3393 OCEANSHORE BLVD N  
PETER C TRIOLO  
1515 LAKE DANIEL DR  
ORLANDO FL 32804

RE: 3391 OCEANSHORE BLVD N  
JAMES E AND NANCY OLBERT  
3391 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136



RE: 3381 OCEANSHORE BLVD N  
BRIDGET LAPOINT  
3381 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: 3373 OCEANSHORE BLVD N  
CONWAY STEPHEN S & LUPITA  
PO BOX 1620  
FLAGLER BEACH FL 32136

RE: 3369 OCEANSHORE BLVD N  
GAIL W HOLT  
3369 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE; 3361 OCEANSHORE BLVD N  
BRIAN A & DIANNE WALSH  
585 TECHNOLOGY PARK STE 100  
LAKE MARY FL 32746

RE: 3359 & 3209 OCEANSHORE BLVD N  
LB CRAYTON TRUSTEE  
10435 MIDTOWN PLWY UNIT 131  
JACKSONVILLE FL 32246

RE: 3341 OCEANSHORE BLVD N  
LEE DENNIS G AND CARIDAD E  
P O BOX 357845  
GAINESVILLE FL 32635

RE: 3323 OCEANSHORE BLVD N  
WILLIAM J & CAROL ANN SHEAFFER  
609 EAST CENTRAL BLVD  
ORLANDO FL 32801

RE: 3319 OCEANSHORE BLVD N  
CHARLES E JOHNSON JR TRUSTEE  
436 ANCHORAGE DRIVE  
NAKOMIS FL 3 4275

RE: 3311 OCEANSHORE BLVD N  
TOMMY D AND BARBARA TANT  
PO BOX 53  
FLAGLER BEACH FL 32136

RE: 3309 OCEANSHORE BLVD N  
JAMES E CORBIN JR  
12470 SUNNYDALE DRIVE  
WELLINGTON FL 33414

RE: 3303 OCEANSHORE BLVD N  
KAHANA BEACH LLC  
2 STAHL COURT  
MARLTON NJ 08053

RE: 3299 OCEANSHORE BLVD N  
CHARLES E II & SANDY B MULLER  
7920 SW 129TH TERRACE  
MIAMI FL 33156

RE: 3295 OCEANSHORE BLVD N  
DAVID R SMITH TRUSTEE  
3404 SHADYWOOD DR  
LAMBERTVILLE MI 48144 9600

RE:3264 OCEANSHORE BLVD N  
TG-EG LLC & MARTIN GILBERT JR, PAUL M  
AND HARRIET H DODD, TRUSTEES  
1075 MASON AVE  
DAYTONA BEACH FL 32117

RE: 3249 OCEANSHORE BLVD N  
PAUL & SHARON SAMARTAN  
3249 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3243 OCEANSHORE BLVD N  
THOMAS J & GAIL VALLELY  
P O BOX 689  
3243 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3227 OCEANSHORE BLVD N  
HOWARD L & MARLENE R SKLAR  
PO BOX 280  
FLAGLER BEACH FL 32136

RE: 3221 OCEANSHORE BLVD N  
HOWARD J MCLAUGHLIN  
PO BOX 403  
FLAGLER BEACH FL 32136

RE: 3215 OCEANSHORE BLVD N  
RAJALAKSHMY SUNDARARAJAN  
50959 WALDON PARK LN  
GRANGER IN 46530

RE: 3203 OCEANSHORE BLVD N  
MAGALY L MUSSER  
10311 RAMBLEWOOD DR  
CORAL SPRINGS FL 33071

RE: 3199 OCEANSHORE BLVD N  
KEENE R BRUCE & BARBARA  
2185 VIA TUSCANY  
WINTER PARK FL 32789

RE: 3195 OCEANSHORE BLVD N  
STEVEN R & JANICE Q DAVIS  
3195 NORTH OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3189 OCEANSHORE BLVD N  
TERRY ANNE WEDDINGTON & JOHN S  
REINEKE & TERESA M REINEKE  
351 HAMILTON SHORE DRIVE  
WINTER HAVEN FL 33881

RE: 3183 OCEANSHORE BLVD N  
DAPHNE-A-;OFE ESTATE S UNIT &  
INTNL SEMINARY OF TYLER CRUS  
P O BOX 1208  
PLYMOUTH FL 32768 1208

RE: 3179 OCEANSHORE BLVD N  
GEORGE C HARPER III  
PO BOX 355  
PIERSON FL 32180

RE: 3171 OCEANSHORE BLVD N  
OLD A1A PARTNERS LLC  
PO BOX 1030  
O'FALLON MO 63366

RE: 3167 OCEANSHORE BLVD N  
MICHAEL & DEBRA MEURER  
12534 ELM MANOR ST  
SAN ANTONIO TX 78256

RE: 3165 OCEANSHORE BLVD N  
DANA L FAULKNER  
226 LAKE TER DR  
HENDERSONVILLE TN 37075

RE: 3161 OCEANSHORE BLVD N  
SUSAN W ROBERTS  
PO BOX 2037  
LAKELAND FL 33806

RE: 3153 N OCEANSHORE BLVD  
GORDON JAMES N & RUTH H JTWROS  
3153 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3147 OCEANSHORE BLVD N  
ASTON KENNETH P JR & LORI A  
P.O. BOX 2150  
FLAGLER BEACH FL 32136

RE: 3143 OCEANSHORE BLVD N  
ELEANOR SINES  
30081 ST HWY 10  
WALTON NY 13856

RE: 3131 OCEANSHORE BLVD N  
POKORSKY THOMAS M & MICHELE M  
4436 WEILERS WAY  
PORT WASHINGTON WI 53074

RE: 3129 OCEANSHORE BLVD N  
COHEN WILLIAM H AS TTEE  
C/O THREE SISTERS INVESTMENT  
1150 CHARMING ST  
MAITLAND FL 32751

RE: 3123 OCEANSHORE BLVD N  
CHARLES P & KRISTIN SHIKANY  
914 N MAIN ST  
WHEATON IL 60187

RE: 3121 & 3109 OCEANSHORE BLVD N  
3109 N A1A LLC  
1800 OLD MOODY BLVD  
BUNNELL FL 32110

RE: 3105 OCEANSHORE BLVD N  
TORGGLER REALTY LLC  
200 OCEAN CREST DR APT 412  
PALM COAST FL 32137

RE: 3101 OCEANSHORE BLVD N  
MASSARO JOSEPH  
3010 PAINTERS WALK  
PALM COAST FL 32136

RE: 3093 OCEANSHORE BLVD N  
MCMAHON PATRICK M &  
DELIA MCCOY MCMAHON  
18 BUCK RUN  
MOHNTON PA 19540

RE: 3087 OCEANSHORE BLVD N  
GALLOGLY EUGENE F  
837 PITT ST  
MT PLEASANT SC 29464

RE: 3079 OCEANSHORE BLVD N  
ROBERT AND SHARON BARRY TRUSTEES  
3738 CARDINAL BLVD  
DAYTONA BEACH FL 32118

RE: 3073 N OCEANSHORE BLVD  
GELSINGER CHERRY ANN  
3073 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3065 OCEANSHORE BLVD N  
MCKNIGHT JESSE H III & GENETTE PO 306 E  
MOODY BLVD  
BUNNELL FL 32110

RE: 3059 OCEANSHORE BLVD N  
KOPCHA THOMAS S  
3640 GREEN MEADOW LANE  
ORION MI 48359 1492

RE: 3051 OCEANSHORE BLVD N  
HOEPKER TODD & JUDY &  
BUHAY JOHN & KATHLEEN T  
735 EDGEWATER DRIVE  
ORLANDO FL 3 2804

RE: 3043 OCEANSHORE BLVD N  
GOLDEN BEACH LLC  
1356 CLASSIC CT N  
LONGWOOD FL 32779

RE: 3037 OCEANSHORE BLVD N  
MEDLIN CHARLES H & KRISTI L  
PO BOX 68  
FLAGLER BEACH FL 32136

RE: 3029 OCEANSHORE BLVD N  
FRANCO E EDWARD & SHARON L  
7852 JAMES ISLAND WAY  
JACKSONVILLE FL 32256

RE: 3023 N OCEANSHORE BLVD  
LYONS THOMAS F & SUZANNE O  
LIFE ESTATE  
3023 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2637 OCEANSHORE BLVD N  
OKELLEY SUE S &  
STEPHEN BROOKS OKELLEY &  
EDWARD BENSON OKELLEY  
1139 ST. ANDREWS CIR  
DUNWOODY GA 30338

RE: 3009 OCEANSHORE BLVD N  
CHRISTOPHER A & SARAH A LEWIS  
2081 CLERMONT ST  
DENVER CO 80207

RE: 3001 OCEANSHORE BLVD N  
GILLIARD ONETHA A & LEMA  
JAMISON  
18051 SW 224TH STREET  
MIAMI FL 3170

RE: 2999 OCEANSHORE BLVD N  
FLAGLER PARADISE LLC  
800 BRICKELL AVE STE 1501  
MIAMI FL 33131 3040

RE: 2995 OCEANSHORE BLVD N  
EDWARD E & EILEEN F HAMBY  
2995 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2991 OCEANSHORE BLVD N  
WILLIAM CHARLES & JANE C SMITH  
2991 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: 2989 OCEANSHORE BLVD N  
WILLIAM & TIFFANY DAVIS  
2691 LAKE RABUN RD  
LAKE MONT GA 30552

RE: 2982 N OCEANSHORE BLVD  
FLAGLER BY THE SEA INC  
2982 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2975 OCEANSHORE BLVD N  
MARK W KRAMP & ROBERT M BARNES TIC  
2981- 82 NORTH OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2963 OCEANSHORE BLVD N  
KAREN J FOLLANSBEE  
48 BULOW WOODS CR  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD N PROPERTY  
IRACE STEVEN & NANCY, EUGENE &  
KATHERINE  
63 COMMERCIAL AVENUE  
GARDEN CITY NY 11530

RE: 2949 N OCEANSHORE BLVD  
DALE J & KL MATEJKA  
2949 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136 2747

RE: 2949 N OCEANSHORE BLVD  
NORMA & KATHRYN DURBIN, FIYAK &  
KAREN DURBIN, PEACOCK & KAITLIN  
DURBIN  
PO BOX 1110  
FLAGLER BEACH FL 32136

RE: 2945 N OCEANSHORE BLVD  
MORRIS BEVERLY A  
2945 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2943 OCEANSHORE BLVD N  
JOHN & CAROL HOEPNER  
2943 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: 2941 OCEANSHORE BLVD N  
CURTIS & JOAN SHERROD  
14750 SW 32 COURT  
DAVIE FL 33330

RE: 2935 N OCEANSHORE BLVD  
ELSMAN DONALD A & MELODY  
2935 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2929 OCEANSHORE BLVD N  
FLAGLER ENTERPRISES LLC  
309 S CLAY ST APT A  
ZELIENPOLE PA 16063

RE: 2903 OCEANSHORE BLVD N  
BUDAY RONALD G & LYNDA BURBRINK  
PO BOX 695  
FLAGLER BEACH FL 32136

RE: 2895 OCEANSHORE BLVD N  
THERESA JOINER  
325 OLD MILL CT  
FAYETTEVILLE GA 30214 4512

RE: 2737 OCEANSHORE BLVD N  
PATEL SIDDHARTH J  
P O BOX 1048  
FLAGLER BEACH FL 32136

RE: 2723 OCEANSHORE BLVD N  
GRESHAM ELISE H STEVEN TRUSTEE  
4500 SW 80TH PLACE  
GAINESVILLE FL 32608

RE: 2719 OCEANSHORE BLVD N  
WINGO JAMES C JR & DEBRA L  
2719 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: 2715 N & 1820 S OCEANSHORE BLVD  
BARNHILL THEODORE MCCOY JR &  
MARJORIE VIVIEN TRUSTEE  
6615 CARDINAL LANE  
ANNANDALE VA 22003

RE: 2711 OCEANSHORE BLVD N  
VICTOR CORRIGAN  
5461 JACQUELINE LN  
N OLMSTEAD OH 44070

RE: 2703 OCEANSHORE BLVD N  
MENNO FRANK & LINH B TERRIET  
2656 RIVER PORT NORTH  
JACKSONVILLE FL 32223

RE: 2693 OCEANSHORE BLVD N  
STEPHEN FOX  
8001 CASTOR AV # 137  
PHILADELPHIA PA 19152 2701

RE: 2681 OCEANSHORE BLVD N  
MA KWAN CHEN  
5461 JACQUELINE LANE  
N OLMSTEAD OH 44070

RE: 2673 OCEANSHORE BLVD N  
BARRY & MARILYN LEVINE  
12403 KELSO RD  
THOMOTOSASSA FL 33592

RE: 2669 OCEANSHORE BLVD N  
ROWGALO BERNARD TRUSTEE  
9 FAIRWINDS CIR  
ORMAND BEACH FL 32176

RE: 2661 OCEANSHORE BLVD N  
CASTELLO MICHELE TRUSTEE  
PO BOX 2531  
FLAGLER BEACH FL 32136

RE: 2653 OCEANSHORE BLVD N  
CAVALLARO LARRY A  
PO BOX 1616  
FLAGLER BEACH FL 32136

RE: 2649 OCEANSHORE BLVD N  
TRIVETT DANNIE W & BARNIE L  
PO BOX 181  
DELAND FL 32721

RE: 2641 OCEANSHORE BLVD N  
GARY & KRISTIN LEE  
1068 LAUREL VALLEY ST  
MARIETTA GA 30064

RE: 2629 OCEANSHORE BLVD  
STEFANSSON LIVIA K TRUSTEE  
9770 MOUNTAIN VIEW DRIVE  
WAITE HILL OH 44094

RE: 72 FLAGLER DR  
SCOTT & CLAUDIA JACKSON  
240 HUNTINGTON RD  
ATLANTA GA 30309

RE: 73 ROLLINS DR  
STEVEN MITCHELL  
1801 NW MARKET ST #311  
SEATTLE WA 98107

RE : 27 ROLLILNS DUNES DR  
WILLIAM C BRUNK  
2001 CIRCLE DRIVE  
COLUMBUS OH 43220

RE: 29 ROLLINS DUNE DR  
BERNARDO M & LORETTE F UTSET  
3790 HUNT CLUB RD  
JACKSONVILLE FL 32224 8412

RE: 28 ROLLINS DUNE DR  
JOSEPH C & SHARON L KEHOE TRUSTEE  
28 ROLLINS DUNE DR  
PALM COAST FL 32137

RE: 1 SEA COLONY DR  
SEA COLONY HOMEOWNERS ASSOC  
C/O SOUTHEAST MANAGEMENT  
PO BOX 354734  
PALM COAST FL 32135 4734

RE: 25 OCEAN DUNE CIRCLE  
HAL & LINDA IRWIN  
420 LAKE ESTATE DR  
CHAPIN SC 29063

RE: 23 OCEAN DUNE CIRCLE  
JOSEPH & LAURA DEFOREST  
411 S OAKDALE DR  
STILLWATER OK 74074 6704

RE: 21 OCEAN DUNE CIRCLE  
MICHAEL J & MARGARET MAHONEY  
20 VILLAGE WOODS RD  
HAVERHILL MA 01822

RE: 15 OCEAN DUNE CIR  
TODD & VALERIE ELLIOTT  
13610 DORNOCH DR  
ORLANDO FL 32828

RE: 9 OCEAN DUNE CIR  
JEFFERY R KISSINGER TRUSTEE  
9 OCEAN DUNE CIR  
PALM COAST FL 32137

RE: 7 OCEAN DUNE CIR  
WHITMAN LORD R AND LURUE L  
PO BOX 1009  
STATESBORO GA 30459

RE: OCEAN DUNE CIR PROPERTY  
PETER & DEBBIE HEALEY  
16 OCEAN DUNE CIR  
PALM COAST FL 32137

RE:3439 & 2424 OCEANSHORE BLVD N  
GEOFFREY BODDEN & CARRIE SMITH  
6337 JACK WRIGHT ISLAND RD  
ST AUGUSTINE FL 32092

RE: 2621 OCEANSHORE BLVD N  
GROMLING FRANK C & BRENDA P  
P O BOX 1080  
FLAGLER BEACH FL 32136

RE: 2601 OCEANSHORE BLVD N  
JOSEPH & MARY LICATA  
2804 RIVERSIDE DR  
WANTAGH NY 11793

RE: 3349 OCEANSHORE BLVD N  
EDDIE FINNEY LIFE ESTATE  
PO BOX 446  
FLAGLER BEACH FL 32136

RE: 3335 OCEANSHORE BLVD N  
LAKE AND RESORT PORPERTIES LLC  
669 EMORY VALLEY ROAD  
OAK RIDGE TN 37830

RE:2140 OCEANSHORE BLVD S  
DEL SIGNORE RONALD & ROSALIA  
2126 BELLCREST COURT  
ROYAL PALM BEACH FL 33411

AMMEX INVESTMENTS INC  
PO BOX 65417  
ORANGE PARK FL 32065

RE:1935 OCEANSHORE BLVD N  
MCKENZIE W H & MARGARET  
1935 N OCEANSHORE DRIVE  
FLAGLER BEACH FL 32136

RE: 2450 OCEANSHORE BLVD N  
OCEANSIDE @ BEVERLY BEACH CONDOS  
2450OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: 2136 OCEANSHORE BLVD S  
DAVID & SUZANNE DEFERIE  
PO BOX 15388  
ASHEVILLE NC 28805

RE: 2024 S OCEANSHORE BLVD  
GARRIS THOMAS C & EDWARD  
2024 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD PROPERTY  
TOWNSEND J L  
821 EAST INT SPEEDWAY BLVD  
DAYTONA BEACH FL 32118

RE:OCEANSHORE BLVD PROPERTY  
PAPE ROBERT J & BARBARA J  
1203 SALT CREEK ISLAND DR  
PONTE VEDRA BEACH FL 32082

RE:28 OCEAN PALM VILLA S  
DEVINE-BEATY JOSEPHINE F  
28 OCEAN PALM VILLAS SOUTH  
FLAGLER BEACH FL 32136

RE: HWY A1A PROPERTY  
KIM RICHARD H  
798 NE 71ST STREET  
BOCA RATON FL 33487

RE : 1943 OCEANSHORE BLVD N  
DAMRON CHARLES E & DINA MARIE  
1943 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: N OCEANSHORE BLVD PROPERTY  
GLADSTONE A MYLES & MATTY J  
315 KING FARM BLVD APT 402  
ROCKVILLE MD 20850 6675

RE: N HWY A1A PROPERTY  
JEFFREY MORRISON  
9560 BAY HILL DR  
WARREN OH 44484

RE: OCEANSHORE BLVD N PROPERTY  
KETHA REAL ESTATE ENTERPRISE LLC  
2925 SKYWAY CIRCLE N  
IRVING TX 75038

RE: OCEANSHORE BLVD N PROPERTY  
CAIN RUTH CLARK TRUSTEE  
C/O LEE CAIN  
3812 VIRGINIA DR  
ORLANDO FL 32803

RE: OCEANSHORE BLVD N PROPERTY  
DAVID B & JUDY SHROVER  
2274 ANDERSON DRIVE  
ORMOND BEACH FL 32174

RE: OCEANSHORE BLVD N PROPERTY  
LONGVIEW PROPERTIES LLC  
3920 WESTBROOK ROAD  
SUWANEE GA 30024

RE: OCEANSHORE BLVD N PROPERTY  
REISS ELAINE  
573 N VALLEY FORGE RD  
NEPTUNE BEACH FL 32266

RE: OCEANSHORE BLVD N  
MANUAL LEVINE D & ANNETTE D LEVINE  
10739 SANTA ROSA DR  
BOCA RATON FL 33498

RE: 1597 OCEANSHORE BLVD N  
SEASCAPE PROPERTIES LLC  
1597 MASTERPIECE WAY  
DELAND FL 32724

RE: OCEANSHORE BLVD N PROPERTY  
OLRICH BILLIE SHAFFER  
C/O JACKIE HARDIN  
P.O. BOX 731  
POMONA PARK FL 32181

RE: HWY A1A PROPERTY  
RYCRAFT HELEN A  
13555 LAKES WAY  
ORLANDO FL 32828

RE: OCEANSHORE BLVD N PROPERTY  
WHITTAKER ALICIA GREENE  
1815 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136 2901

RE: 1802 CENTRAL AV  
GREGORY L & MARSHA SAUER  
1802 N CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: HWY A1A PROPERTY  
JAMES A NELSON &  
JOANNE ECKHARDT  
P.O. BOX 2098  
FLAGLER BEACH FL 32136

RE: HWY A1A PROPERTY  
FRANK J & BARBARA H NAVRAN  
23 WHITE DEER LANE  
PALM COAST FL 32164

RE: HWY A1A PROPERTY  
FRANK A AND PAMELA J BOTELHO  
35 ST ANDREWS CT  
PALM COAST FL 32137

RE: HWY A1A PROPERTY  
CHAS E AND CAROLYN E SALYER  
1744 N CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: HWY A1A PROPERTY  
HVIZDAK WILLIAM G  
3154 HILLSIDE RD  
EDINBURG PA 1 6116

RE: 1728 N CENTRAL AVE  
JOHN WADE THOMPSON  
1728 N CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: 1815 N OCEANSHORE BLVD  
WHITTAKER RICHARD & MARGINE E  
1815 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136 2901

RE: HWY A1A PROPERTY  
GARY & MARTHA SPRINGER  
1246 LAKESIDE DRIVE  
COROLLA NC 27927

RE: N HWY A1A PROPERTY  
CAREY & DOROTHY KLEE STRICKLAND  
8107 SW 72 AVE 305 E  
MIAMI FL 33143



RE: HWY A1A PROPERTY  
RHUDY MARTHA  
P.O. BOX 1525  
FLAGLER BEACH FL 32136

RE: HWY A1A PROPERTY  
SIMON R SANFORD & R MARGIER  
6591 CARINLOUGH PLACE  
DUBLIN OH 43016

RE: 1703 OCEANSHORE BLVD N  
MARVIN A SHEETS  
PO BOX 1487  
BUNNELL FL 32110

RE: HWY A1A PROPERTY  
MICHAEL J & MARIANNE KEHOE  
PO BOX 591  
FLAGLER BEACH FL 32136

RE: 1647 OCEANSHORE BLVD N  
CAROLYN B HUNSAKER  
1647 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE : 1641 OCEANSHORE BLVD N  
ANTHONY L & GEORGIA CARUSO  
1641 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 1635 OCEANSHORE BLVD N  
JAMES HARTKOP & STACY WITFILL  
3079 W BLOSSOM DR  
BEVERLY HOLLS FL 34465

RE: 1633 N OCEANSHORE BLVD  
SAUNDERS JEANNE FULGHUM &  
JAMES ANTHONY  
1633 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 1505 NORTH OCEAN SHORE BLVD  
JANIE T BARROWS E TAYLOR LAWHORN  
1505 N CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD N PROPERTY  
MARGARET O'NEIL  
37 MEETINGHOUSE LANE  
WEYMOUTH MA 02189 1044

RE: N HWY A1A PROPERTY  
THE ALIKI TOWNHOUSE ASSOC INC  
PO BOX 2496  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
JOHN C & VICKIE E WETSEL  
15620 ARABIAN WAY  
MOUNT VERDE FL 34756

RE: 1347 N OCEANSHORE BLVD  
DEEN CLAUDE SISCO  
PO BOX 637  
FLAGLER BEACH FL 32136 0637

RE: N HWY A1A PROPERTY  
WELLS FARGO BANK  
MAC Z3057 010  
PO BOX 2248  
JACKSONVILLE FL 32203 2248

RE: N HWY A1A PROPERTY  
RICHARD A NORTHRIP &  
1900 ALASKAN WAY #306  
SEATTLE WA 98101

RE: N HWY A1A PROPERTY  
1309 FLAGLER LLC  
11621 KEW GARDEN AVE STE 109  
PALM BEACH GARDENS FL 33410

RE: 1305 N OCEANSHORE BLVD N  
THOMAS M SCARISBRICK  
P.O. BOX 1267  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
PETER A & LUCILLE M CANALE  
112 CHRISTOPHERS MILL RD  
MEDFORD NJ 08055

RE: N HWY A1A PROPERTY  
DUENSING CLYDE JR & WINNIE R  
PO BOX 121  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
T C A INC C/O STEPHEN LAWRENCE  
3145 GEARY BLVDSUITE 707  
SAN FRANCISCO CA 94118

RE: N HWY A1A PROPERTY  
LHP SCALES INC  
P O BOX 1207  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
DARREN Q & JANICE M CHAMBERS  
1517 GOLF CLUB EXT  
DOUGLAS GA 31533

RE: 1201 N OCEANSHORE BLVD N  
PARKER RAYMOND A & CLAUDIA J  
1201 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 1119 OCEANSHORE BLVD N  
IRWIN MARCI E  
1119 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 1112 N CENTRAL AVE  
RICHARD O & JOAN R MORGAN  
1112 N CENTRAL AVENUE  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
LONG LARRY W & JEANNE R  
PO BOX 1445  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
RAVAL PRADEEP A & MARTA C  
3554 NW 63RD PLACE  
GAINESVILLE FL 32653

RE: N HWY A1A PROPERTY  
WOLCOTT INC REALTORS  
PO BOX 1407  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
JAMES F AND BETTY L COX  
341 PALM DRIVE  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
KASTURY UMA R  
5 CATHERINE CT  
BOONTON NJ 07005

RE: 2579 OCEANSHORE BLVD N  
CHARLES R & RHODA TURNBLACER  
2579 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
DOUGLAS E ERNST  
150 POND TRACE  
FAYETTEVILLE GA 30215 5351

RE: 909 OCEANSHORE BLVD N  
FLAGLER BEACH HOLDINGS LLC  
8851 HWY A1A SOUTH  
ST AUGUSTINE FL 32080

RE: N HWY A1A PROPERTY  
FLAGLER BEACH PROPERTIES LLC  
17375 W HWY 40  
OCALA FL 34481 8797

RE: N HWY A1A PROPERTY  
LOWE PALM COAST INC  
PO BOX 354489  
PALM COAST FL 32135 4489

RE: N HWY A1A PROPERTY  
KENNETH R TARSITANO  
29 BEDFORD DRIVE  
PALM CITY FL 32137

RE: 2080 OCEANSHORE BLVD N  
DENNIS L LOTT & KELLY A LEWELLEN  
2080 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
WALKER DEAN  
6156 S WILLIAMSON BLVD  
PORT ORANGE FL 32128

RE: N HWY A1A PROPERTY  
DAVID ALLEN AND AFAF K WENSKY  
2628 CORTE VIDA  
PLEASANTON CA 94566

RE: N HWY A1A PROPERTY  
WILLIAM M & ZOE B FOREHAND  
P O BOX 2029  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
VRE FLAGLER BEACH LLC  
502 N CARROLL AVE STE 120  
SOUTHLAKE TX 76092 6449

RE: N HWY A1A PROPERTY  
FLAGLER BEACH HOLDINGS LLC  
1481 LAMBERT AVE  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
BETTY H ANNIS  
2826 MONDAUI DR  
ROCKLEDGE FL 32955

RE: S HWY A1A PROPERTY  
BR & FAMIL LTD PARTNERSHIP  
C/O BILLY TIMMS  
1203 CAVE SPRING RD  
ROME GA 30161

RE: 1224 S OCEANSHORE BLVD  
JAI HANUMAAN LLC  
1224 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 1544 S HWY A1A  
OLDE TOWNE ENCHANTMENT INC  
1544 S A1A  
FLAGLER BEACH FL 32136

RE: 1600 S HWY A1A  
DIANE DOMPE LARSON  
1600 SOUTH A1A  
FLAGLER BEACH FL 32136

RE: 1604 S OCEANSHORE BLVD  
TIMOTHY GOULD  
1604 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
DETRICK FRED G  
P O BOX 964  
FLAGLER BEACH FL 32136

RE: S HWY A1A PORPERTY  
JERE SCOLA  
4615 NW 53<sup>RD</sup> AVE  
GAINESVILLE FL 32653

RE: S HWY A1A PROPERTY  
JEFFREY A FISHER  
2015 N CENTRAL AVENUE  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
AMIN BHAVESH R & DIVYA  
224 GREGG PKWY  
COLUMBIA SC 29206

RE: 1816 OCEANSHORE BLVD S  
RODGER & SUZANNE CLEMENT  
1816 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
MOIDOM LLC  
140-25 MULBERRY AV  
FLUSHING NY 11355

RE: S HWY A1A PROPERTY  
JULES S II & THERESE ABBOSH  
100 BRISTOL PL  
PONTE VEDRA BEACH FL 32082

RE: S HWY A1A PROPERTY  
DEMUS & CARRIE DEERING  
4401 OLD SPARTA RD  
COOKEVILLE TN 38506

RE: S HWY A1A PROPERTY  
FIRST LAND NORTH LLC  
PO BOX 566601  
PINECREST FL 33256

RE: S HWY A1A PROPERTY  
VASYL N & MILKA G  
C/O NINA RAM  
208 CLUBSIDE DR  
TANEYTOWN MD 21787

RE: S HWY A1A PROPERTY  
LEO A JR & KAREN SCHOTT  
4530 38<sup>TH</sup> WAY SOUTH  
ST PETERSBURG FL 33711

RE: S HWY A1A PROPERTY  
JUDY MISBACH  
2130 E 56<sup>TH</sup> AVE APT J106  
ANCHORAGE AK 99507 5438

RE: 2264 OCEANSHORE BLVD S  
TAMMY JANE SULLIVAN  
400 E BAY ST STE 302  
JACKSONVILLE FL 32202

RE: S HWY A1A  
YANKOWSKI JUDITH A & JOSEPH R  
PO BOX 1192  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
ROBERT J & CAROLE A ELLIOTT  
PO BOX 445  
FLAGLER BEACH FL 32136

RE: SHWY A1A PROPERTY  
THE EIGHTEEN EIGHT GROUP LLC  
193 BLACK MEADOW RD  
CHESTER NY 10918

RE: S HWY A1A PROPERTY  
PHILLIP & MARGO BACSICK  
2568 S CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: 2300 OCEANSHORE BLVD S  
KALBERER RICHARD N TRUSTEE  
PO BOX 2194  
MYRTLE BEACH SC 29578 2194

RE: OCEANSHORE BVD S PROPERTY  
NICKLER MICHAEL TRUSTEE  
8246 MAN O WAR ROAD  
PALM BEACH GARDENS FL 33418 7719

RE: OCEANSHORE BLVD S PROPERTY  
MELTON MARIE A  
2316 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
CYNTHIA A DANGIOLINI  
P O BOX 1889  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
BUFFARDI INVESTMENT CORP  
% PALM WEST REALTY INC  
2 FLORIDA PK DR N SUITE 107  
PALM COAST FL 32137

RE: S HWY A1A PROPERTY  
WILLIAM STEPNIKA  
9521 MEECH AVE  
CLEVELAND OH 44105

RE: S HWY A1A  
SAMORISKI PAUL J  
5331 SW 98TH COURT  
MIAMI FL 33165

RE: OCEANSHORE BLVD S PROPERTY  
HALL LINDA B & RICHARD D  
628 YORKSHIRE DR  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
RUDOLPH & MARGARET P BARLAN  
9 BLACKBERRY PL  
PALM COAST FL 32137

RE: S HWY A1A PROPERTY  
JOSEF & VALENDON WALLY  
908 HARDSTONE WAY  
SANTA ROSA CA 95405

RE: S HWY A1A PROPERTY  
SREEKANTH R & VANDANA R  
CHANDRUPATLA  
1700 N JIMMIE FOX PATH  
HERNANDO FL 34442

RE: 2400 S HWY A1A  
LORETTA HILLIER  
2340 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
ROBERT S LUTZ  
2400 S A1A  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
LEE C & LOIS A FOSHAY  
151 CENTER RD  
DUDLEY MA 01571

RE: S HWY A1A PROPERTY  
BARRY GRIFFIN  
2448 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
MOULTRIE L & JANE L HITT  
2544 S CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
PAL PARKER & SONS INC  
PO BOX 218  
FLAGLER BEACH FL 32136

RE: S HWY A1A  
STEPHEN D FANN  
119 BETH COURT  
GALLATIN TN 37066

RE: S HWY A1A PROPERTY  
MONTGOMERY ANDREW WILLIAMSON  
MARY ELIZABETH SLOOF  
576 HAROLD AVE NE  
ATLANTA GA 30371 1790

RE: HWY A1A PROPERTY  
FRANK & ISABEL CARRANO  
5951 NW FOURTH AVE  
BOCA RATON FL 33487

RE: S HWY A1A PROPERTY  
MARK J CHICKERING  
45 WHITCOCK LANE  
PALM COAST FL 32164

RE: S HWY A1A  
FRANK JOSEPH & MARGARETA  
PO BOX 295  
REDDING CT 06896

RE: S HWY A1A PROPERTY  
BROOKS A TRUSTEE  
PO BOX 571  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
SLLAN G & DELORIS C HALLER  
PO BOX 1838  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
MARIO R AND MARYLOU BAIATA  
1411 S DAYTONA AVE  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
JOHN J & JAMI L VERDEROSA  
1399 CURRAHEE CLUB DRIVE  
TOCCOA GA 20577

RE: S HWY A1A PROPERTY  
JAMES JOSEPH ANDERSON  
623 CUMBERLAND DR  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
NEAL R & AMORETTE J NORDIN  
2820 DOWNING ST  
JACKSONVILLE FL 32205

RE: S HWY A1A PROPERTY  
GLENN P MACARTHUR  
7432 SUNSHINE SKYWAY LN S  
ST PETERSBURG FL 33711 5110

RE: S HWY A1A PROPERTY  
CAROL A MICKEN  
2614 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2616 OCEANSHORE BLVD N  
ROBERT L SLATTERY  
2616 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2620 OCEANSHORE BLVD S  
JOHN R ATHEY & DENISE MANZOLILLO  
2620 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2624 OCEANSHORE BLVD S  
JOHN J & JANICE M JENKINS  
2624 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2628 SOUTH A1A  
JOSEPH M & BEVERLY A BACHMAN  
2628 SOUTH A1A  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
JAMES & DOROTHEA BENINTENDE  
PO BOX 1802  
FLAGLER BEACH FL 32136 1802

RE: S HWY A1A PROPERTY  
WOLFGANG BAER TRUSTEES  
380 W CARMEL VALLEY RD  
CARMEL VALLEY CA 93924

RE: 1001 OCEANSHORE BLVD N  
MAURO ALISON  
1001 N OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2644 S OCEANSHORE BLVD  
JOHN T & GLORIA W RIDENOUR TRUSTEES  
2644 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
CHARLES L & MARY E JETT  
7469 APRELLE DR  
SANFORD FL 32771

RE: S HWY A1A PROPERTY  
JOHN P BERNARDI  
2652 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2656 OCEANSHORE BLVD S  
WILLIAM T & ERIKA T EVERETT  
2656 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
TONY STIVERS ET AL  
10400 INNISBROOK DRIVE  
JACKSONVILLE FL 32222

RE: S HWY A1A PROPERTY  
CHARLES W JR & SUSAN HEATH  
JEAN GEORGE & DAVID ROBBINS  
614 CODDINGTON ROAD  
ITHACA NY 14850

RE: S HWY A1A PROPERTY  
HALBERT C & LIVIA M CAPUY  
625 HIGH HAMPTON DRIVE  
AUGUSTA GA 30907

RE: S HWY A1A PROPERTY  
ELINOR F PHELAN  
PO BOX 2837  
BUNNELL FL 32110

RE: S HWY A1A PROPERTY  
EGENETO INVESTMENTS  
3148 DEEPWATER LN  
MAUMEE OH 43537 9588

RE: S HWY A1A PROPERTY  
JAY R & MARTIA S MCNEILL  
PO BOX 1292  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
DEBORAH GAINES  
4410 NE 25<sup>TH</sup> AVE  
LIGHTHOUSE POINT FL 33604

RE: S HWY A1A PROPERTY  
JOHN W & PATRICIA D GIBBS  
13445 BONICA WAY  
WINDMERE FL 34786

RE: S HWY A1A PROPERTY  
THOMAS W III & CAROLE HARWOOD  
2724 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: S HWY A1A PROPERTY  
LAWRENCE P & ROSALIND A SERVINSKY  
4097 PORTAGE STREET  
PORTAGE PA 15946

RE: 2732 HWY A1A S  
ELKE VOGEL  
2732 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD S PROPERTY  
MICHELE HERBOLDT  
2744 A OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD S PROPERTY  
WALTER CZERWONKA & PAUL S ALLEN  
6453 CROSSWINDS DR  
CLOVER SC 29701 7528

RE: OCEANSHORE BLVD S PROPERTY  
LAKIC MIRO & KEVIN REEVES  
61 SOUTH TURN CIRCLE  
PONCE INLET FL 32127

RE: OCEANSHORE BLVD S PROPERTY  
SZCZEBAK EDWARD & JULIA  
215 STONE SCHOOL RD  
SUTTON MA 01590

RE: OCEANSHORE BLVD S PROPERTY  
ELOISE CANTORE  
3603 CARAMBOLA CIR  
VIERA FL 32940

RE: OCEANSHORE BLVD S PROPERTY  
WILLIAM H & ANNA LYNN SHAW  
2706 S CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD PROPERTY  
TYPE E CORPORATION INC THE  
2805 SOUTH OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2811 OCEANSHORE BLVD S 6  
CHARLOTTE F SANDERS TRUSTEE  
2144 PENN DR  
DELAND FL 32724

2815 OCEANSHORE BLVD S  
PATRICK J O'BRIEN  
2815 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: OCEANSHORE BLVD PROPERTY  
PEBBLE BEACH VILLAGE HOA INC  
PO BOX 1221  
FLAGLER BEACH FL 32136

RE: 3510 & 3500 OCEANSHORE BLVD S  
OCEAN BEACH CLUB II CONDO  
3510 ONCEANSHORE BLVD S  
FLAGLER BEACH FL 32136

RE: 3580 OCEANSHORE BLVD S  
NAUTILUS CONDO  
3580 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 3590 HWY A1A S  
C/O DAVID ROTENBERG  
555 SKOKIE BLVD STE 555  
NORTHBROOK IL 60062

RE: 3600 OCEANSHORE BLVD S  
OCEANVIEW MANOR CONDO  
3600 OCEANSHORE BLVD S  
FLAGLER BEACH FL 32136

RE: OCEAN HAMMOCK PROPERTY  
OWNERS ASSOC INC MGNT SERV  
5455 HWY A1A SOUTH  
ST AUGUSTINE FL 32080

RE: 3551 OCEANSHORE BLVD N  
HAMMOCK MOORINGS N HOA INC  
5455 HIGHWAY A1A S  
ST AUGUSTINE FL 32080

RE: 50 OCEAN RIDGE BLVD N  
DENISE E BIRK TRUSTEE  
3909 LITHIA RIDGE BLVD  
VALRICO FL 33594

RE: 48 OCEAN RIDGE BLVD N  
SUSAN C MACFARLAN TRUSTEE  
66 ISLAND ESTATES PKWY  
PALM COAST FL 32137



RE: 58 OCEAN RIDGE BLVD  
CHARLES LAMB  
1344 HONAN DR  
SOUTH BEND IN 46614

RE: 56 & 28 OCEAN RIDGE BLVD N  
HOFFMAN FAMILY LIMITED  
1225 E WARNER ROAD STE 17  
TEMPE AZ 85284

RE: 54 OCEAN RDIGE BLVD N  
ANDREW E & MARY F BILINSKI TRUSTEE  
1291 TWEED COURT  
VIENNA VA 22182

RE: 52 OCEAN RIDGE BLVD N  
PATRICK G & ANNA M VASTANO TRUSTEE  
316 MARGUERITA AV  
SANTA MONICA CA 90402

RE: 44 OCEAN RIDGE BLVD N  
RBS INVESTMENTS OF PALM COAST LLC  
5409 HUNT CAMP RD  
ROANOKE VA 24018

RE : 42 OCEAN RIDGE BLVD N  
YVONNE E TIMMES  
5525 VILLA LAKE CT  
SUWANEE GA 30024

RE: 40 OCEAN RIDGE BLVD N  
DENNIS & CATERINE FITZGERALD ESTATE  
40 OCEAN RIDGE BLVD  
PALM COAST FL 32137

RE: 38 OCEAN RIDGE BLVD N  
MICHAEL D & KRISTI A CHIUMENTO  
84 ISLAND ESTATES PKWY  
PALM COAST FL 32137

RE; 36 OCEAN RIDGE BLVD N  
STAYING IN THE GREEN LLLP  
10863 KOI RD  
ORLANDO FL 32817

RE: 34 OCEAN RIDGE BLVD N  
FEHNEL RICHARD & LAURA G  
34 OCEAN RIDGE BLVD N  
PALM COAST FL 32137

RE: 32 OCEAN RIDGE BLVD N  
LEE A G JR  
PO BOX 413  
ALMA GA 31510

RE: 26 OCEAN RIDGE BLVD N  
MUNDAY WILLIAM F JR & RITA M  
436 EAGLES POINT  
CHAGRIN FALLS OH 44023

RE: 24 OCEAN RIDGE BLVD N  
BRUSSARD DAVID & ANN TTEE  
118 HUNTINGTON AVE APT1605  
BOSTON MA 02116

RE: 22 OCEAN RIDGE BLVD N  
ALBERT LAWRENCE R &  
KIM M CAMERON  
3303 WATER ST NW UNIT 8H  
WASHINGTON DC 20007

RE: 20 OCEAN RIDGE BLVD N  
ROBERT & MARY ANNE BOWLES  
4757 S ATLANTIC AVE #502  
PONCE INLET FL 32137

RE: 18 OCEAN RIDGE BLVD N  
SOLOMON TEDDY  
P O BOX 467  
ALMA GA 31510

RE: 15 OCEAN RIDGE BLVD N  
EVANS FRANCIS C & SUSAN D  
16 OCEAN RIDGE BLVD N  
PALM COAST FL 32137

RE: 14 OCEAN RIDGE BLVD N  
BELGRADE HOLDINGS LLC  
14 OCEAN RIDGE BLVD N  
PALM COAST FL 32137

RE: 12 OCEAN RIDGE BLVD N  
RICHARD C & CINDY R ROBERTSON  
119 PENINSULA DRIVE  
PEACHTREE CITY GA 30269

RE: 10 OCEAN RIDGE BLVD N  
JAMES & DEBORAH EZELL  
853 CHESTNUT LAKE DR  
MARIETTA GA 30068

RE: 8 OCEAN RIDGE BLVD N  
JOHN J & ANNE M BEYSTEHNER  
8 OCEAN RIDGE BLVD N  
PALM COAST FL 32137

RE: 6 OCEAN RIDGE BLVD N  
LAI FAMILY LIMITED PARTNERSHIP  
18209 TOWN HARBOUR ROAD  
CORNELIUS NC 28031 7775

RE: 4 OCEAN RIDGE BLVD N  
RONALD J & ELIZABETH B KELLY  
4 OCEAN RIDGE BLVD N  
PALM COAST FL 32137

RE: 2 OCEAN RIDGE BLVD N  
KEVIN P & EILEEN P VAN FLEET  
145 WEAVERS RD  
GREENSBURG PA 15601

RE:1 OCEAN RIDGE BLVD N  
RICHARD F & LORI L RADER  
PO BOX 353279  
PALM COAST FL 32135 3279

RE: 3 OCEAN RIDGE BLVD S  
LAWRENCE & BARBARA A MENTZ  
140 W 86TH STREET APT #2B  
NEW YORK NY 10024

RE: 7 OCEAN RIDGE BLVD S  
BEVERLY E WEBSTER  
8709 E LYNCHBURG-SALEM TNPCK  
GOODE VA 24556

RE: 9 OCEAN RIDGE BLVD S  
E C N PROP OF ST JOHNS CO LLC  
8301 WEST MCNABB ROAD  
TAMARAC FL 33321

RE: 11 OCEAN RIDGE BLVD S  
CHARLES S & CHRISTINE M HARDIGREE  
11 OCEAN RIDGE BLVD S  
PALM COAST FL 32137

RE: 13 OCEAN RIDGE BLVD S  
TROYA EDUARDO  
102 YACHT HARBOR DR UNIT 377  
PALM COAST FL 32137 3432

RE: 15 OCEAN RIDGE BLVD S  
JERRY C SPRINGER  
2587 MUIR CIRCLE  
WEST PALM BEACH FL 33414

RE: 19 OCEAN RIDGE BLVD S  
DAPILA ARVIND & SNEH &  
SONEET KAPILA & PRABODH  
2420 DEL LAGO DRIVE  
FORT LAUDERDALE FL 33316

RE: 21 OCEAN RIDGE BLVD N  
WILLIAM JOHN ROGERS II  
21 OCEAN RIDGE BLVD SOUTH  
PALM COAST FL 32137 3378

RE: 23 OCEAN RIDGE BLVD S  
CHARLES C MULLINS III  
10267 HART BRANCH CIRCLE  
ORLANDO FL 32832

RE: 25 & 27 OCEAN RIDGE BLVD S  
RICHARD M & GRACE BENNINGTON  
9612 ENCLAVE PLACE  
PORT ST LUCIE FL 34986

RE: 29 OCEAN RIDGE BLVD S  
ROBERT M & STACEY TROLLINGER  
2916 MILTON  
DALLAS TX 75205

RE: 31 OCEAN RIDGE BLVD S  
MICHAEL & MOLLY H GENNARO  
6 MEADOW ROAD  
HARRISON NY 10528

RE: 35 OCEAN RIDGE BLVD S  
ALSH INVESTMENTS LLC  
2207 S CLEAR CREEK RD  
KILLEEN TX 76549

RE: 37 & 39 OCEAN RIDGE BLVD S  
ARCEO CONSTANTINO MD  
39 OCEAN RIDGE BLVD  
PALM COAST FL 32137

OCEAN HAMMOCK PROPERTY  
HOA INC MNGT SERVICES  
5455 HWY A1A SOUTH  
ST AUGUSTINE FL 32080

RE: 31 CALLE DEL SUR  
JAMES & EVETTE MENI  
13120 RIVER ROAD  
POTOMAC MD 208541123

RE: 33 CALLE DEL SUR  
FELDMAN HOWARD J & CLARICE R  
& ALAN MINTZ & PAMELA  
4455 29TH STREET NW  
WASHINGTON DC 20008

RE: 69 CALLE DEL SUR  
MORRIS & GREENE LLC  
6004 BROWNSBORO PARK BLVD  
SUITE E  
LOUISVILLE KY 40207

RE: 47 CALLE DEL SUR  
HUNT HARVEY & MELISSA  
19 AVENUE DE LA MER APT 102  
PALM COAST FL 32137

RE: 57 CALLE DEL SUR  
KAZA ERIKS & KRISTINA  
5030 DOWN POINT LANE  
WINNDERMERE FL 34786

RE: 61 CALLE DEL SUR  
WHANG & KYOUNG JA MOON  
1085 DEARBORN ROAD  
FORTLEE NJ 07024

RE: 61 CALLE DEL SUR  
RICHARD A & SANDRA J MECKLER  
21 LAKE ROAD  
SHORT HILLS NJ 07078

RE: 63 CALLE DEL SUR  
THOMAS R ANDERSON  
8 CARLOS COURT  
PALM COAST FL 32137

RE: 69 CALLE DEL SUR  
WILLIAM H & KIELE NEAS WOLF  
1545 BELLEVUE AV  
HILLSBOROUGH CA 94010

RE : 71 CALLE DEL SUR  
MICHAEL T & MARIE RUSSO  
71 CALLE DEL SUR  
PALM COAST FL 32137

RE: 73 & 75 CALLE DEL SUR  
PRIVATE IDAHO  
632 11<sup>TH</sup> ST  
SANTA MONICA CA 90401 2904

RE: 77 CALLE DEL SUR  
FLAGLER DEL SUR LLC  
2758 DAWN RD  
JACKSONVILLE FL 32207

RE: 81 CALLE DEL SUR  
WATERFRONT LLC  
19416 PRESIDENTIAL WAY  
N MIAMI BEACH FL 33179

RE: 83 CALLE DEL SUR  
DONALD & GLORIA GARDNER  
83 CALLE DEL SUR  
PALM COAST FL 32137

RE: 85 CALLE DEL SUR  
KAREN B & CRAIG W MOORE  
717 KENNINGTON TERRACE  
LAKE FOREST IL 60045

RE: 87 CALLE DEL SUR  
CHARLES H E & JUANITA VOGEL  
26 ISLAND ESTATES PKWY  
PALM COAST FL 32137

RE: 89 CALLE DEL SUR  
JEFFREY J VORHOLT  
13 VIA ROMA  
PALM COAST FL 32137

RE: 91 CALLE DEL SUR  
LAZZARA GASPER JR TRUSTEE  
5000 SAWGRASS VILLAGE STE 28  
PONTE VEDRA BEACH FL 32082

RE: 95 CALLE DEL SUR  
MICHAEL & LISA HELLER  
128 DOCKSIDE CIRCLE  
WESTON FL 33327

RE: 97 CALLE DEL SUR  
RICHARD PRESTON & L GROLL  
4820 NW 128<sup>TH</sup> ST  
MIAMI FL 33054

RE: 99 CALLE DEL SUR  
GARY N & JESSICA M ACKERMAN  
RONALD T & BARBARA ACKERMAN  
55 ST JAMES DRIVE  
PALM BEACH GARDENS FL 33418

RE: 101 CALLE DEL SUR  
CRUZ EVARISTO G & ELAINE  
28 WINCHESTER LN  
HOLMDEL NJ 07733

RE : 103 CALLE DEL SUR  
FRANK A TAYLOR TRUSTEE  
44 N LAKEVIEW DR  
PALM COAST FL 32137

RE: 105 CALLE DEL SUR  
FISERV ISS & CO TRUSTEE  
FBO ALAN MESSER & GRASMERE LLC  
PO BOX 173859  
DENVER CO 80217

RE: 107 CALLE DEL SUR  
RICHASON THOMAS F & MARY ANN  
107 CALLE SUR DEL S  
PALM COAST FL 32137 1218

RE: 109 CALLE DEL SUR  
PATEL ATUL & RESHMA PATEL  
12949 HUNTLEY MANOR DRIVE  
JACKSONVILLE FL 32224

RE: 111 CALLE DEL SUR  
RICHARD W & CHARLOTTE A COLLIER  
5500 GRASMERE DR  
PLANO TX 75093

RE: 113 CALLE DEL SUR  
RICHARD F & MICHAEL R DIETZ  
185 AVENUE DE LA MER # 203  
PALM COAST FL 32137

RE: 35 CALLE DEL SUR  
GIBBS JUDITH L TRUSTEE  
35 CALLE DEL SUR  
PALM COAST FL 32137

RE: 3931 OCEANSHORE BLVD N  
CALICO AMALGAMATED PROP LLC  
284 SOUTH ISLAND  
GOLDEN BEACH FL 33160

RE: 3919 OCEANSHORE BLVD N  
WILSTA INVESTMENTS FLAGLER LLC  
ATTN: KRISTY KING  
1172 S. DIXIE HWY., #481  
CORAL GABLES, FL 33146

RE: 3913 OCEANSHORE BLVD N  
HARRIS D & SHARON P HOBBY  
8070 INNSBRUCK DRIVE  
ATLANTA GA 30350

RE : 3907 OCEANSHORE BLVD N  
PCF 27 LLC C/O NATALIE MIRANDA  
8428 PASEO VISTA DRIVE  
LAS VEGAS NV 89128

RE: 3861 OCEANSHORE BLVD N  
BROTHERN BRIAN R & JILL M  
404 AVONDALE COURT  
WINTER SPRINGS FL 32708

RE: 3855 OCEANSHORE BLVD N  
PUVVADA VENKATAPATHI & MADHAVI  
KANTAMNENI  
1163 MEADOWLOOK CT  
RESTON VA 20194

RE: 3849 OCEANSHORE BLVD N  
THOMPSON BLAKE  
PO BOX 52  
NASSAU DE 19969

RE: 3843 OCEANSHORE BLVD N  
STEVEN R & DENISE E PARSON  
6054 WINDING LAKE DR  
JUPITER FL 33458

RE: 3837 OCEANSHORE BLVD N  
PJR REALTY LLC  
340 N 12TH STREET STE 203  
PHILADELPHIA PA 19107

RE: 3835 OCEANSHORE BLVD N  
ALPINE LLC  
11390 TWELVE OAKS WAY STE 520  
NORTH PALM BEACH FL 33408

RE: 3825 OCEANSHORE BLVD N  
DAMODAR LLC  
13830 SAXON LAKE DR  
JACKSONVILLE FL 32225

RE: 3813 OCEANSHORE BLVD N  
DUYCK CARL W & DENNIS J FLOOD  
PO BOX 215  
LEWES DE 11958

RE: 3765 OCEANSHORE BLVD N  
LEVERTON ROGER F & MARILYN F  
3765 NORTH OCEANSHORE  
PALM COAST FL 32137

RE: 3759 OCEANSHORE BLVD N  
CAROLYN BREWER &  
GUILLERMO H DAVILA  
2580 SE 8TH STREET  
POMPANO BEACH FL 33062

RE: 3753 OCEANSHORE BLVD N  
WILLIAM B SCHER JR &  
C ELLEN MACNEIL  
5201 PORTSMOUTH ROAD  
BETHESDA MD 20816

RE: 3741 OCEANSHORE BLVD N  
ROBERT & BARBARA J PAPE  
1203 SALT CREEK ISLAND DRIVE  
PONTE VEDRA BEACH FL 32082

RE: 3735 OCEANSHORE BLVD N  
ALAN & RENE M CARDINALE  
10095 MAIN ROAD  
PO BOX 77  
MATTITUCK NY 11952

RE: 3729 OCEANSHORE BLVD N  
ROESEL PAUL F  
2570 JONES MILL ROAD  
STATESBORO GA 30461

RE: 3709 OCEANSHORE BLVD N  
ERIC J BOHRER  
7980 MAYTEN AVE APT 4004  
RANCHO CA 91730

RE: 2617 OCEANSHORE BLVD N  
CLASSIC 59 INVESTMENTS  
7888 CATHERDDRAL DRIVE  
NIAGRA FALLS, ON CANADA

RE: 2597 OCEANSHORE BLVD N  
JOSEPH D & SARAH H JOHNSON  
2597 OCEANSHORE BLVD N

SEA COLONY HOA INC  
C/O SOUTHEAST MANAGEMENT  
P.O. BOX 354734  
PALM COAST FL 32135 4734

RE: N OCEANSHORE BLVD PROPERTY  
MORRISON JEFFREY H  
9560 BAY HILL DR  
WARREN OH 44484

OCEANSIDE @ BEVERLY BEACH  
CONDOMINIUM BLDG B  
2455 OCEANSHORE BLVD N  
FLAGLER BEACH FL 32136

RE: N HWY A1A PROPERTY  
GLADSTONE A MYLES & MATTY J  
315 KING FARM BLVD APT 402  
ROCKVILLE MD 20854 2556

RE: 2811 OCEANSHORE BLVD S 5  
CASS LARMORE CAROLYN  
PO BOX 1289  
FLAGLER BEACH FL 32136

RE: 2400S A1A  
HILLIER LORETTA  
2340 S OCEANSHORE BLVD  
FLAGLER BEACH FL 32136

RE: 2408 S OCEANSHORE BLVD  
LEE & LOIS FOSHAY  
151 CENTER RD  
DUDLEY MA 01571

RE: 41 CALLE DEL SUR  
LINDEGREN LENNART S AND  
ROBERTA T LINDEGREN H/W  
41 CALLE DEL SUR  
PALM COAST FL 32137

RE: 115 CALLE DEL SUR  
ECKERT DAVID D  
115 CALLE DEL SUR  
PALM COAST FL 32137

RE: 7 AVE DE LA MER  
PORTO MAR NEIGHBORHOODASSOC INC  
C/O SOUTHERN STATES MGMT  
7 FLORIDA PARK DR N STE C  
PALM COAST FL 32137

RE: 3600 OCEANSHORE BLVD S  
OCEAN PALM GOLF CLUB  
PARTNERSHIP  
3600 S CENTRAL AVE  
FLAGLER BEACH FL 32136

RE: 28111 OCEANSHORE BLVD S 7  
CLARK JOSEPH R  
12 LAKE AVENUE  
DELAND FL 32724

**FLAGLER COUNTY HURRICANE AND STORM DAMAGE REDUCTION  
INTEGRATED DETAILED PROJECT REPORT AND ENVIRONMENTAL  
ASSESSMENT**

**FLAGLER COUNTY, FLORIDA**

**FINDING OF NO SIGNIFICANT IMPACT**

I have reviewed the Detailed Project Report (DPR) and Environmental Assessment (EA) of the Selected Plan and the Future Without Project (No Action Alternative) for the Flagler County Hurricane and Storm Damage Reduction Study, Flagler County. The Selected Plan includes reduction of damage from extreme storms and hurricanes through the shoreline protection measure of rebuilding a natural dune system that includes planting native dune-type vegetation. This Finding incorporates by reference all discussions and conclusions contained in the integrated EA enclosed hereto. Based on information analyzed in the EA, reflecting pertinent information obtained from other agencies and special interest groups having jurisdiction by law and/or special expertise, I conclude that the proposed action will have no significant impact on the quality of the human environment. Reasons for this conclusion are in summary:

a. The U.S. Army Corps of Engineers, Jacksonville District, (Corps) will take measures to minimize the effects to the threatened and endangered species including sea turtles. There will be no unauthorized impacts to other threatened and endangered species. The project will not jeopardize the continued existence of any federally listed species or adversely modify designated critical habitat.

b. I have determined that Selected Plan, as proposed, will have no adverse affect on significant historic properties. Coordination with the Florida State Historic Preservation Officer and appropriate federally recognized tribes has been initiated. As stated in the EA, use of the shoreline will have no effect on historic properties as none are located within the immediate footprint of the project area, and that the preferred alternative (Selected Plan) will have beneficial effects to those historic properties located immediately west of the project area. Furthermore, no historic properties would be affected by any of the project alternatives in the nearshore.

c. State water quality standards will be met. A Water Quality Certification (WQC) permit application will be submitted for issuance by the Florida Department of Environmental Protection (FDEP).



d. The Corps has determined that the proposed project is consistent with the Coastal Zone Management Act (CZMA). The final concurrence from the State will be issued with the FDEP permit.

e. Measures to eliminate, reduce below the level of significance, or avoid potential impacts to fish and wildlife resources will be implemented during project construction.

f. The proposed project has been evaluated pursuant to the Migratory Bird Treaty Act. The Jacksonville District's Migratory Bird Protection procedures will be implemented for this project and for future projects. These procedures have been coordinated with the U.S. Fish and Wildlife Service and the State of Florida.

g. Benefits to the public will include restored and improved natural habitat for protected species, fish and wildlife, restored aquatic ecosystem, and engagement by the local community.

h. Measures will be in place during construction to eliminate, reduce, or avoid adverse impacts below the threshold of significance to fish and wildlife resources include the following:

1. All dredge and placement activities will occur within the template of authorized and permitted areas;
2. All water based activities would follow standard sea turtle protections measures and the conditions of the NMFS SARBO, and
3. Dredged material placement would comply with the shoreline protection measures conditions of the USFWS SPBO.

In consideration of the information summarized, I find that the proposed action will not significantly affect the human environment and does not require an Environmental Impact Statement. This document will be available to the public on the U.S. Army Corps of Engineers Jacksonville District website at:

<http://www.saj.usace.army.mil/About/DivisionsOffices/Planning/EnvironmentalBranch/EnvironmentalDocuments.aspx#Flagler>

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Date

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Alan M. Dodd  
Colonel, U.S. Army  
District Commander



**DEPARTMENT OF THE ARMY**  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P. O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

Planning Division  
Environmental Branch

To Whom It May Concern:

Pursuant to the National Environmental Policy Act and U.S. Army Corps of Engineers Regulation (33 CFR 230.11), this letter constitutes the Notice of Availability for the Flagler County, Florida Hurricane and Storm Damage Reduction Project Draft Integrated Feasibility Study and Environmental Assessment.

The draft document is available on the U.S. Army Corps of Engineers, Jacksonville District website for your review and comment at:

<http://www.saj.usace.army.mil/About/DivisionsOffices/Planning/EnvironmentalBranch/EnvironmentalDocuments.aspx#Flagler>

For comments to be considered, they must be received within 30 days from the date of this letter unless additional review time is authorized by federal law. Letters should be addressed to the letterhead address, to the attention of the Planning Division, Environmental Branch, Coastal Section. If you have any questions or comments, please contact Ms. Kathleen McConnell by telephone at 904-232-3607, or by email at [kathleen.k.mcconnell@usace.army.mil](mailto:kathleen.k.mcconnell@usace.army.mil).

Sincerely,

Eric P. Summa  
Chief, Environmental Branch